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McCULLOUGH'S

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U. S. Department of Agriculture

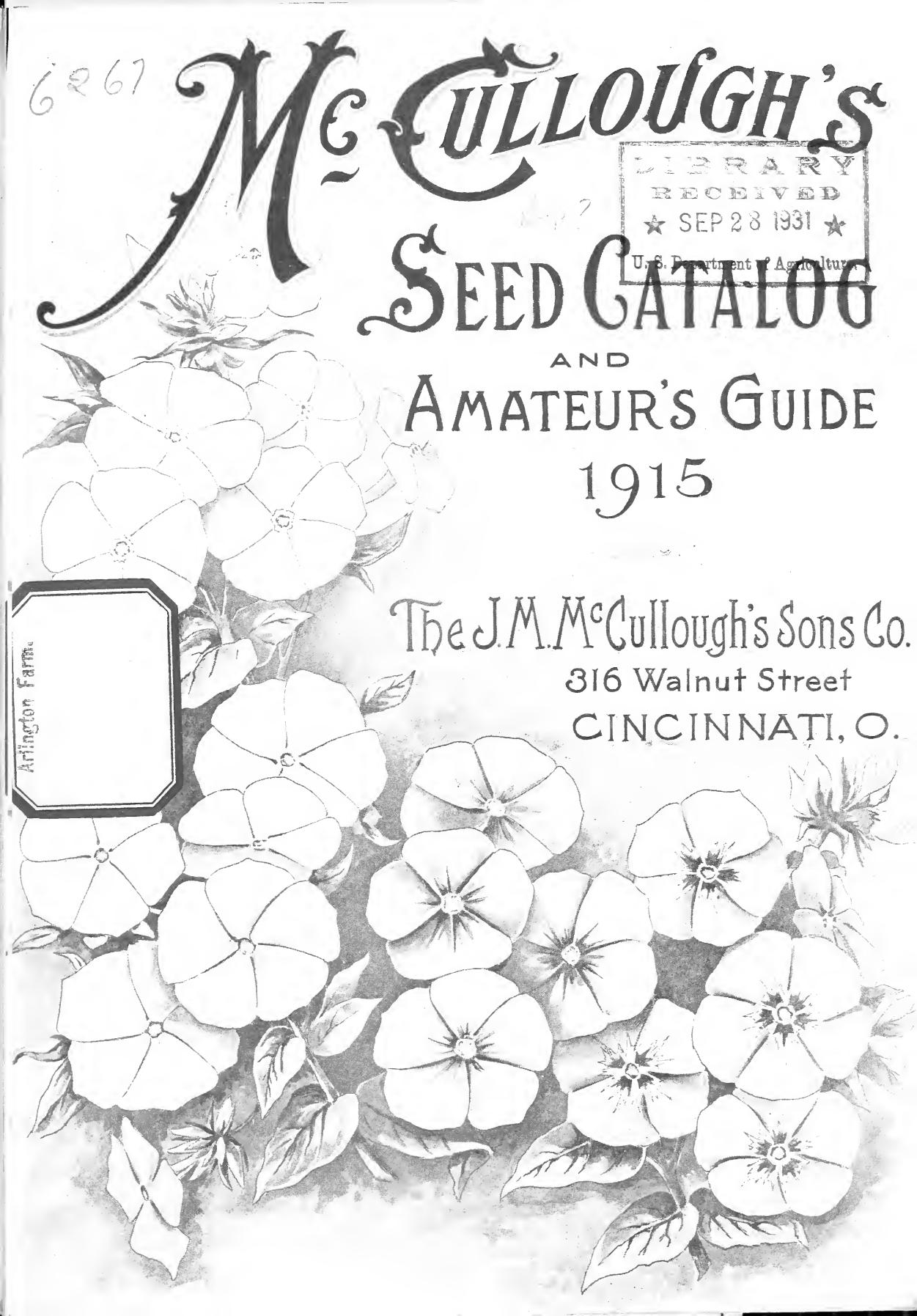
SEED CATALOG

AND
AMATEUR'S GUIDE

1915

The J.M. McCullough's Sons Co.
316 Walnut Street
CINCINNATI, O.

Arlington Farms



INSTRUCTIONS, As to Postage, Etc.

When Ordering Beans, Corn or Peas to be forwarded by mail, add 5c per pint; 10c per quart; 15c for 2 quarts to pay for postage. When larger quantities are wanted by mail refer to Parcel Post Rates.

All other varieties of vegetable and all Flower Seeds will be forwarded free by mail at Catalogue Prices unless otherwise noted. Grass Seeds; Clover Seeds; Miscellaneous Seeds; Plants, Tools and Supplies are not sent free by mail—see Parcel Post Rates.

NOTE:—On orders for one to three pounds of goods (larger quantities in proportion) not included in our free delivery, while the packing may only weigh the fraction of a pound it must be considered as a full pound when adding postage.

PARCEL POST RATES.

All parcels of seeds, bulbs and plants, up to and including 8 oz. at the rate of 1c for each 2 oz. regardless of distance; over 8 oz., at the Zone Rate. All merchandise other than seeds, bulbs and plants up to and including 4 oz. in weight can be sent at the rate of 1c an ounce regardless of distance. Over 4 oz. at the Zone Rate.

Limit of weight for delivery within local first and second zones, 50 pounds; to all other zones, 20 pounds. If weight exceeds this we will pack in 2 or 3 parcels (no more) provided money is remitted to cover postage.

A fraction of a pound is considered a full pound.

Lbs.	Local.	Zone 1 and 2 150 miles.	3rd 150 to 300 miles.	4th 300 to 600 miles.	5th 600 to 1,000 miles.
1	\$0.05	\$0.05	\$0.06	\$0.07	\$0.08
2	.06	.06	.08	.11	.14
3	.06	.07	.10	.15	.20
4	.07	.08	.12	.19	.26
5	.07	.09	.14	.23	.32
6	.08	.10	.16	.27	.38
7	.08	.11	.18	.31	.44
8	.09	.12	.20	.35	.50
9	.09	.13	.22	.39	.56
10	.10	.14	.24	.43	.62
11	.10	.15	.26	.47	.68
12	.11	.16	.28	.51	.74
13	.11	.17	.30	.55	.80
14	.12	.18	.32	.59	.86
15	.12	.19	.34	.63	.92
16	.13	.20	.36	.67	.98
17	.13	.21	.38	.71	1.04
18	.14	.22	.40	.75	1.10
19	.14	.23	.42	.79	1.16
20	.15	.24	.44	.83	1.22
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42	.26	.46			
43	.26	.47			
44	.27	.48			
45	.27	.49			
46	.28	.50			
47	.28	.51			
48	.29	.52			
49	.29	.53			
50	.30	.54			

Order Early. It will greatly facilitate shipments if orders are sent early. We aim to send off all orders the day received.

Send the Money with the Order. Postal Note, Postoffice Order, Registered Letter, Express Money Order, or Draft on Cincinnati or New York. United States Postage Stamps will be received for small amounts; be exceedingly careful about the least moisture getting on them when remitting, as they sometimes reach us so stuck together as to be almost worthless.

We do not send C. O. D. Everything being plainly priced, the return charges on money is an unnecessary expense.

Should you change your address, we will esteem it a favor if you will notify us, so we can forward our Catalogue with regularity; if you receive two Catalogues of the same kind, please hand one to some friend who has a garden.

Should an error occur, we desire to be promptly informed, and will take pleasure in making satisfactory corrections.

Write your Name and Address distinctly and in full; please use the Order Sheet and Envelope inserted in this Catalogue.

We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

With this issue of our annual Catalogue and Amateurs' Guide we enter upon the 77th year since the founding of our business by the late Mr. J. M. McCullough.

TRADE MARK



THE J. M. McCULLOUGH'S SONS CO.

ALBERT McCULLOUGH, Pres.

Established 1838

H. B. McCULLOUGH, Sec'y

Incorporated 1904

316 Walnut Street, Just Below Fourth St. Cincinnati, Ohio

Warehouse and 328, 330 and 332 East Front Street
Track Depot: 323 and 325 Yeatman Street

— LONG DISTANCE TELEPHONE, MAIN 4598 —

ORDER SHEET

THE J. M. McCULLOUGH'S SONS CO., Cincinnati, O.
316 Walnut Street, (Just Below Fourth Street)

VERY IMPORTANT—Write your Name and Address distinctly and in full.

191

Date

ORDER SHEET

THE J. M. McCULLOUGH'S SONS CO., Cincinnati, O.

316 Walnut Street, (Just Below Fourth Street)

VERY IMPORTANT—Write your Name and Address distinctly and in full.

Name of Person.....

" Post Office.....

" County

" State _____

" *Shipping Point* (If different from P. O.) _____

(State if wanted by Mail, Express
or Freight and which Company)

POSTAGE { When ordering CORN, PEAS or BEANS be sure to add 5 cents pint; 10 cents quart and 15 cents 2 quarts — FOR POSTAGE.
For Postage on GRASS, CLOVER and FARM SEEDS — See Postal Rates, second page of Cover.
We Deliver Free, VEGETABLE and FLOWER SEEDS, by the packet, ounce, $\frac{1}{4}$ pound and pound.

Please use this order sheet for orders only, and carry out catalogue price of each article. Order Flower Seeds by Number. For further particulars and conditions of sale, see cover. Always write letters on a separate sheet from your order. More order blanks will be sent on request.

We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

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THE A. W. McELROY CO., CHICAGO, ILL.
316 Madison Street. (Order from Library 3464)

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Post Office 10
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State 11
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LETTERS RECEIVED

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between stations to small

Villeneuve





McCullough's Seeds of Special Merit —For 1915—

You will find under this heading varieties that are desirable or of known value, together with the more important of recent introductions. The list has been carefully selected, and the descriptions given are chiefly derived from our own experience and observation. We have endeavored to make them as accurate and helpful as possible, to aid the purchaser in making selections.

FOR CULTURAL DIRECTIONS AND OTHER VARIETIES OF SEEDS — SEE THE GENERAL LIST

MARKET GARDENERS

or other planters requiring larger quantities of seeds than is usually needed for a family garden, are invited to write for our special price list which is intended only for those who grow for market.

POSTAGE:—When ordering CORN, PEAS or BEANS to be sent by mail be sure to add 5c per pint, 10c per quart and 15c per 2 quarts for postage. All other Vegetable Seeds offered in PACKETS, Ounces, Quarter Pounds and Pounds are sent free by mail at prices quoted—except where otherwise noted.

McCullough's Norwood Stringless Green Podded Bush Bean

One of the finest extra early Beans in cultivation and one that has held its place in spite of many new introductions for which superior qualities were claimed. It produces in profusion long, straight, round, deeply-saddlebacked pods early in the season. The pods are absolutely stringless at all stages of growth, brittle, tender and of real good flavor. Has a much larger pod than B.'s Stringless, or about one-third larger than the Valentine. 20c pt., 30c qt., \$2.00 pk.....5c pkt.



McCullough's Improved Round Pod Red Valentine Bean

A carefully selected stock of this well-known variety; its popularity is due to the fact that it is one of the earliest sorts, maturing often in 35 to 40 days. It can withstand early slight frosts without injury; its foliage is immense, it always produces a heavy crop of long, round, deep, green-colored pods, which if wanted in a tender stage should be picked while young, in this condition they are absolutely stringless. On account of its prolific habit, and large pod, it is desirable for market purposes, while for the home garden few can equal it. 20c pt., 30c qt., \$1.75 pk.....5c pkt.

Burpee's Stringless Green Pod Bush Bean

One of the most popular green-podded Beans. It is an early sort of the very best quality. Is entirely stringless, as its name implies. Pods are round, 5 1/2 to 6 inches in length, of a light green color, very tender and vines are abundantly prolific. This Bean is most desirable for either home use or the market garden. We recommend it to all our customers as one of the very best Beans they can plant. 20c pt., 30c qt., \$2.00 pk.....5c pkt.

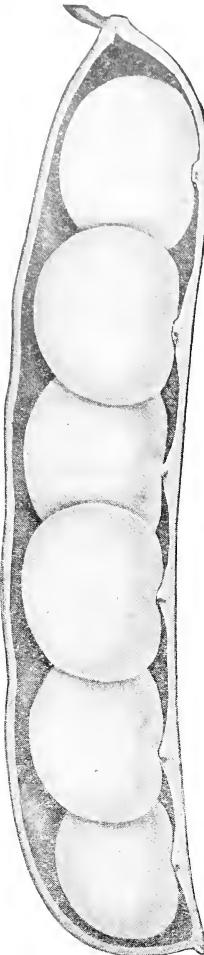
Round Pod Kidney Wax Bush Bean

The plant grows tall, strong and sturdy, with long, round, handsome, stringless pods of large size, very solid and full of meat, crisp, brittle and free from rust. The earliest and best Wax Bean for either the market or home garden. We recommend it very highly. 20c pt., 35c qt.....5c pkt.

Postage must be added to price of Beans if wanted by Mail. See Postal Rates, second page of cover.

Norwood Stringless Green Pod

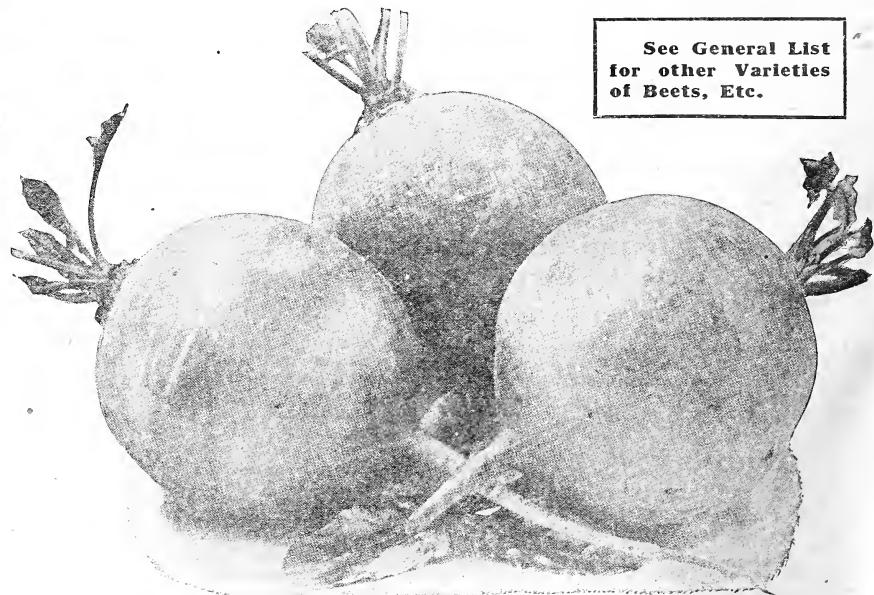
FOR OTHER VARIETIES OF BEANS—SEE PAGE 2 AND GENERAL LIST.



McCullough's
Extra Large Lima

McCullough's Norwood Beet

A superb early main-crop Beet. Both for market and the home garden. The roots are of neat turnip shape, growing three to four inches in diameter, deep through, smooth and entirely free from small rootlets. Flesh deep blood-red, tender, and of rich flavor. The roots can be used early in the season when only partially grown, being ready for use almost as quickly as the Extra Early sorts and of better quality. It retains its choice quality and freedom from woodiness until the beets have reached their full size. Foliage is comparatively small, of a rich bronze color. **10c oz., 35c $\frac{1}{4}$ lb., 5c pkt.**



McCullough's Norwood Beet

Fireball Beet A new and distinct extra early Turnip-rooted variety of the finest table quality. The flesh is solid, crisp and sweet, and of a brilliant fiery red color. It is perfectly globular in form, with smooth skin, a tiny tap root, and very slender leaf stalks. **15c oz., 50c $\frac{1}{4}$ lb., 5c pkt.**

Special Prices given to Market Gardeners and others who use Seeds in large quantities.

SEEDS OF SPECIAL MERIT—Continued

Ohio Wax Pole Bean

Large podded variety, usually 7 inches or more in length, and are so fleshy that they are frequently greater in width than breadth. They are solidly meaty, entirely stringless, and when cooked deliciously rich and buttery. It commences to bear when scarcely higher than the bush variety, and keeps on producing until killed by frost. It is a rampant grower, one plant filling a pole with a mass of vines densely loaded with luscious beans, almost a solid mass of pods from bottom to top. The finest Wax Pole Bean. **20c pt., 35c qt., \$2.25 pk..... 5c pkt.**

Kentucky Wonder or Old Homestead Pole Bean

(Green Pod.)

An old favorite, with long, fleshy, deeply saddle-backed pods. Very prolific, producing an abundance of fine, stringless, crisp beans until late in the season.

One of the best green pole beans, producing pods in clusters, ready for use about 85 days from time of planting. **20c pt., 30c qt., \$2.00 pk..... 5c pkt.**

Fordhook Bush Lima Bean

This is the best type of bush lima in cultivation, it has a distinct upright vigorous growth; the pods, which are borne in clusters well above the ground, frequently contain as many as 5 thick luscious beans. It matures very early and continues in bearing till frost. This is so far ahead of the old strain of Burpee's Bush Lima, that it should be used instead; the bean is thicker, sweeter and earlier, being also more prolific. **20c pt., 35c qt., 5c pkt.**

Burpee's Bush Lima Bean

The true bush form of the old, large Lima Pole Bean. It grows vigorously to a height of 18 to 20 inches, forming a circular bush, 2 or 2 $\frac{1}{2}$ feet in diameter, requiring no poles or stakes, yielding from 50 to 100 fine pods, similar to those grown on the large white Lima Bean. **20c pt., 30c qt., \$2.00 pk..... 5c pkt.**

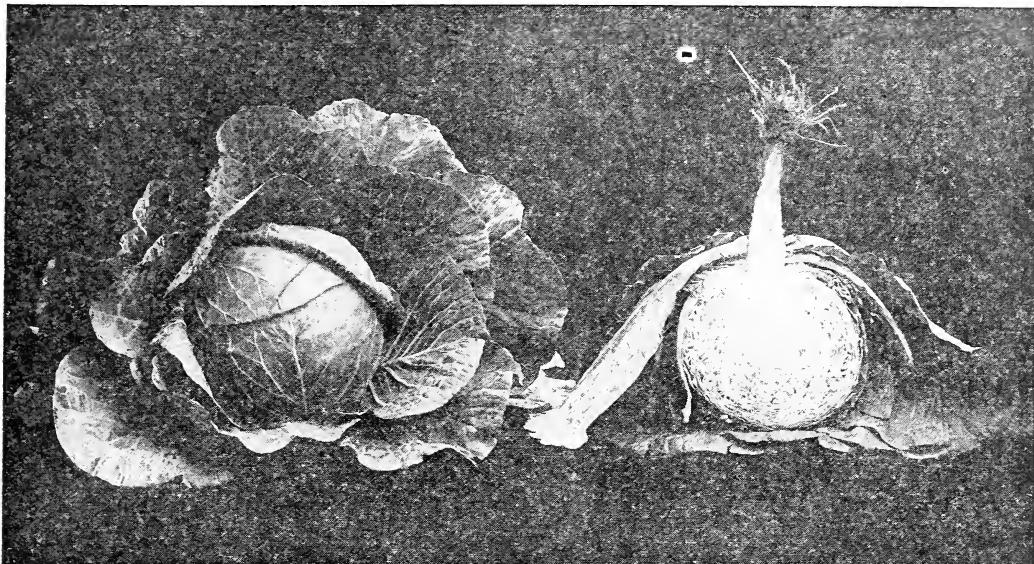
McCullough's Extra Large Lima Pole Bean

A choice selection of the Large Lima. It produces pods and beans of large size and in great abundance. This variety is without doubt the best for private gardens. The quality is much better than any other variety, the Beans cooking rich and mealy. **20c pt., 30c qt., \$1.75 pk..... 5c pkt.**

Postage Must be Added to Price of Beans if Wanted by Mail. See Postal Rates, Second Page of Cover.

See General List
for other Varieties
of Beets, Etc.

SEEDS OF SPECIAL MERIT—Continued

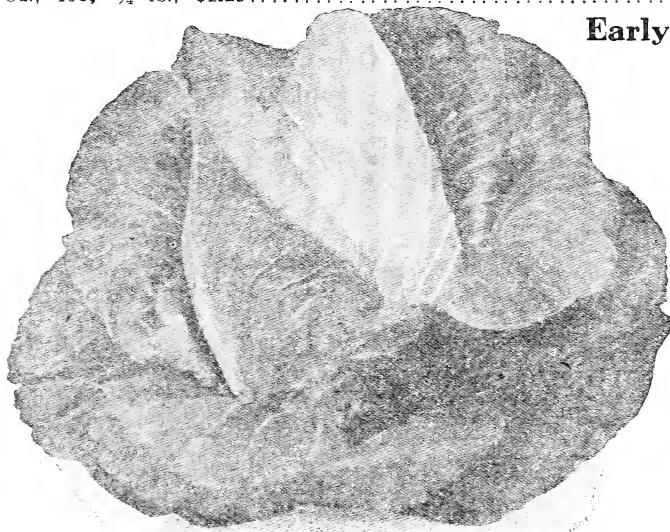


McCullough's Early Market

McCullough's Early Market Cabbage

A new, early, round head Cabbage. Will produce double the crop of any other early variety; always extremely solid and fine ribbed. Once known, it will hold its own with the market gardeners and home growers alike. It is exceedingly tender, fine grained, and as a crop no early Cabbage will approach it. Planted side by side with Early Jersey Wakefield, under the same conditions, the Early market produced heads of marketable size five to six days earlier and in size fully double that of the Early Jersey Wakefield; was more solid and better flavored and kept in fine condition much longer. It is very dwarf and compact, allowing of close planting. Heads fine, ball-shaped, and with few outside leaves. Size ideal for marketing. (Supply limited.)

Oz., 40c; $\frac{1}{4}$ lb., \$1.25 5c pkt.



Early Jersey Wakefield

cent larger in size than the old type of Wakefield, and is only a few

Early Jersey Wakefield Cabbage**One of the Best First Early**

This Cabbage, though introduced years ago, still holds its undisputed lead as one of the best extra early varieties in cultivation, and is largely grown as a First Early Cabbage. It is the good, old reliable, always depended upon for its uniformity in earliness and crop. Among its merits may also be mentioned its large size of head for so early a variety and the small outside foliage, allowing it to be closely planted; the heads are pyramidal in shape, having a blunted or rounded peak. We believe our selected stock has no equal. (See cut.)

Oz., 20c; $\frac{1}{4}$ lb., 60c 5c pkt.

Charleston or Large Wakefield Cabbage**One of the Best Large Early**

For some years past customers have requested us to procure for them, if possible, a Cabbage which had all the characteristics of the Early Jersey Wakefield, but of greater size. The Charleston Wakefield is a larger type, which is now so fixed in its character that we can offer it with confidence to those desiring a Cabbage of this kind. This selection will average about 50 per

days later. Oz., 20c; $\frac{1}{4}$ lb., 60c .. 5c pkt.

Glory of Enkhuizen Cabbage, A Valuable Early Variety

Has become a remarkably popular early, and is regarded as amongst the most important introductions in the cabbage line for some years.

It is a splendid sort for the private garden and market gardener who grows for high-class trade. It has received popular favor on account of exceptional merit, in several important points. The heads are globe-shaped, medium size, and handsome dark-green color, just right for market; it is sure heading and is a splendid keeper, and early. The quality is excellent, the leaves being fine ribbed.

Oz., 25c; $\frac{1}{4}$ lb., 75c .. 5c pkt.

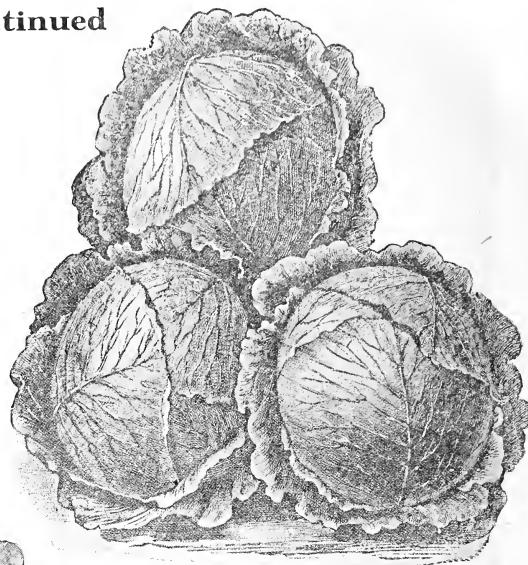
Special Prices Given to Market Gardeners.

SEEDS OF SPECIAL MERIT—Continued

McCULLOUGH'S EARLY LOUISVILLE
DRUMHEAD CABBAGE.

Originated by us many years ago, and is still the peer of all other varieties for early market purposes throughout this section. It is highly esteemed by the market gardeners, and it will stand hot weather better than any other sort; will stand the entire summer without bursting; in fact, we produced heads that weighed 18 pounds on September 1, having been planted with Jersey Wakefield, which was long unfit for use. Our Louisville forms large, solid heads, and is the earliest large-heading variety, while, if planted later, it makes excellent heads for winter. The quality is very fine, and is remarkable for its certainty to head. For winter use, sow later in the season. We have received expressions of unanimous praise from all parts of the country, and could fill many pages of our catalogue with testimonials. (See also Page 17.)

20c oz., 60c $\frac{1}{4}$ lb 5c pkt.



Copenhagen
Market
Cabbage

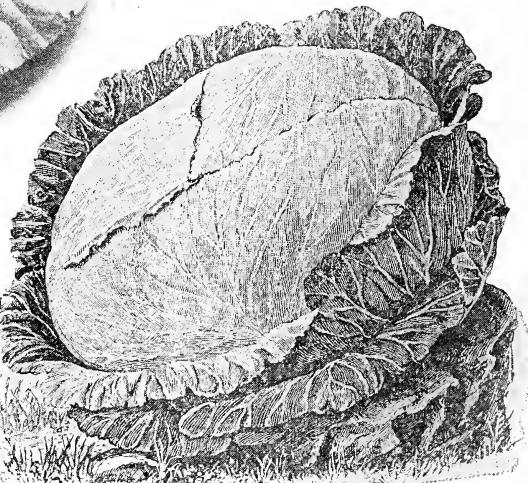


Louisville Drumhead

COPENHAGEN MARKET.

The illustration is a good representation of a splendid new early cabbage. It is the earliest large round headed sort. The ripening is early and uniform, maturing at one time and almost with Early Jersey Wakefield. Considering its early season, the heads are remarkably large. One of its chief features is compactness; its leaves, which are light green, are round, dish-shape and fold tightly together in remarkably compact and solid form; it is so solid that many more plants can be grown on an acre than is possible with most sorts. It has few outer leaves, which permits close planting, and it grows close to the ground on a short stem.

40c oz., \$1 25 $\frac{1}{4}$ lb 5c pkt.



McCULLOUGH'S PREMIUM LATE FLAT DUTCH.

A variety for winter market; has no superior. Heads large, round, solid, broad and flat on top. They open white and crisp, are tender and well-flavored. The best variety for keeping. Our stock has been carefully selected for several years. No better strain on the market.

15c oz., 50c $\frac{1}{4}$ lb 5c pkt.

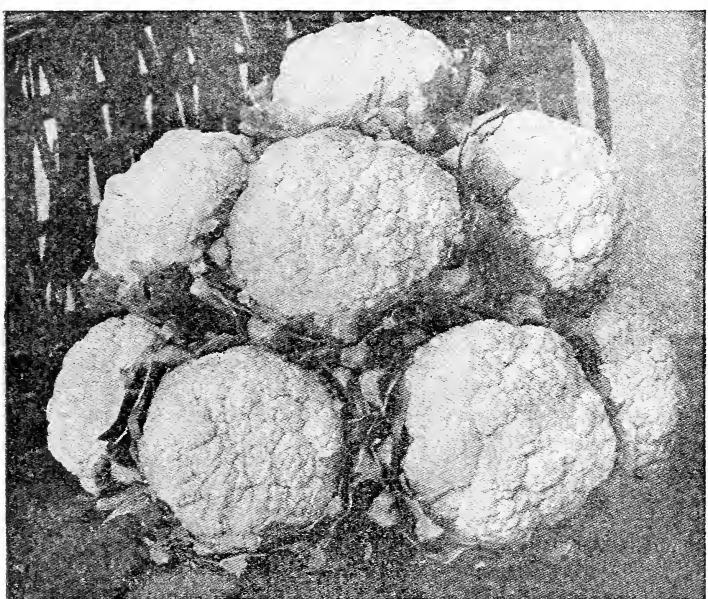
DANISH "ROUNDHEAD" CABBAGE.

It is slightly larger and produces more weight to the acre than Ballhead. The foliage is rather lighter in color; the handsome hard heads are beautifully white when trimmed. The heads are produced about ten days earlier, and while perfectly *globular* or round in form are not quite so deep through; that is, not so elongated or *balloon-shaped* as the Ballhead. It is shorter stemmed than the Short-Stemmed Ballhead, which is sometimes sold as Danish Roundhead. The magnificent hard heads are splendid keepers and bring the highest prices on market in winter.

25c oz., 80c $\frac{1}{4}$ lb 5c pkt.

McCullough's Premium Flat Dutch

SEEDS OF SPECIAL MERIT—Continued



McCullough's Earliest Dwarf Erfurt Cauliflower

Early Market Carrot, Stump-Rooted

THE BEST EARLY TABLE CARROT AND GOOD FOR FORCING.

A very choice strain. Tender, fine-grained flesh. An enormous producer; handsome, uniform stumped roots. Considered by many to be the best table Carrot, because of its quality and shape; free from core and of a deep golden yellow color. Can be sown thick, and consequently well adapted for frame culture. A most excellent forcing.

15c oz., 50c $\frac{1}{4}$ lb.....5c pkt.

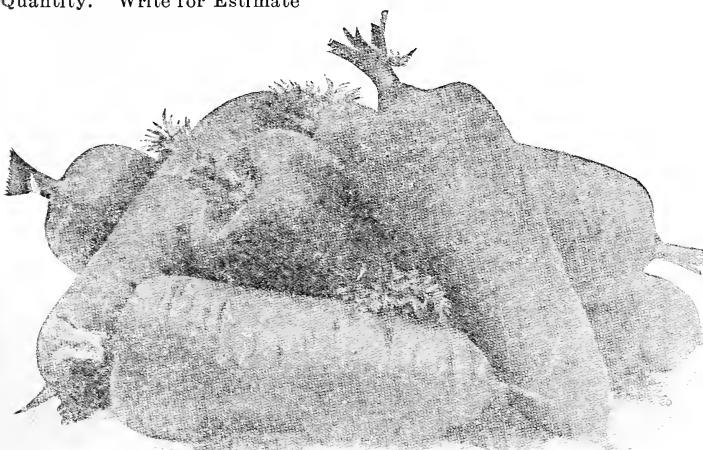
Chantenay Carrot

A POPULAR AND PROFITABLE SORT TO RAISE FOR CITY MARKETS.

It is about 6 inches long, thick through and decidedly stump-rooted. In size it is between the Oxheart and Danvers. The flesh is a deep orange red, fine-grained and of a splendid flavor. It is very early and always produces smooth, shapely roots. Its fine appearance finds for it a ready market; its splendid table qualities keep it in demand. Our strain of seed is unsurpassed.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Special Price Given to Those Who Use Carrot and Other Seed in Quantity. Write for Estimate



Chantenay Carrot

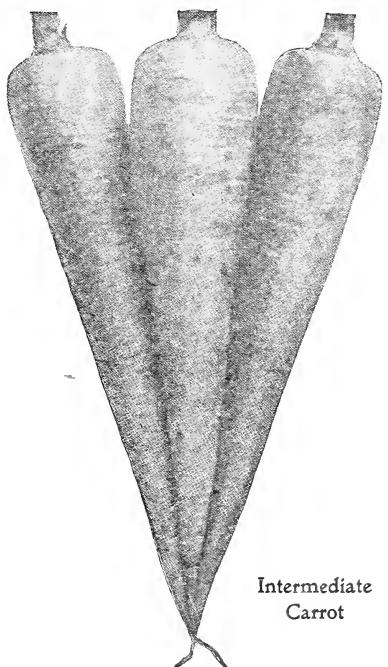
McCullough's Earliest Dwarf Erfurt Cauliflower

Is beyond question the best for all purposes. It heads where others fail. Year after year this has become more popular, until leading market gardeners now grow it entirely, having discarded all the older varieties, as they find our strain of Erfurt to be the surest heading. On account of its dwarf and compact habit, the plants may be set out 20 to 22 inches each way, so that from 1200 to 1400 can be planted on an acre. For pickling it is the standard variety. The compact and solid texture of the snow-white heads, combined with delicious flavor, surpass all others. **\$1 25 $\frac{1}{4}$ oz. 25c pkt.**

Intermediate Carrot

A large and handsome main-crop variety. It is the connecting link between half-long and long Carrots, with a yielding capacity in deep soils equal to any of the longs. The root, 10 or 12 inches in length, is very broad at the neck, 2 to 3 inches through, and tapers evenly to the small tap-root. It grows smoothly and uniformly and combines with its other merits rich reddish-orange flesh, tender, sweet and entirely free from woody coarseness even at maturity.

10c oz., 25c $\frac{1}{4}$ lb.....5c pkt.



Intermediate Carrot

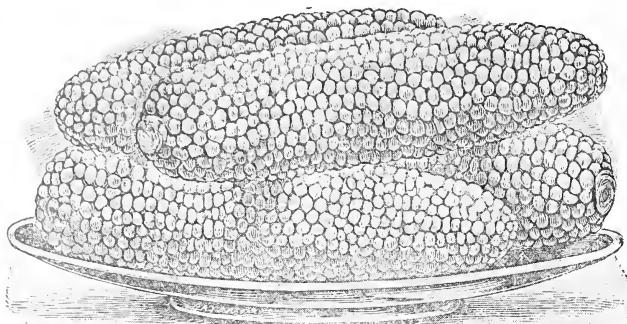
Oxheart or Guerande Carrot

Intermediate length; is fully 3 to 5 inches in diameter; quality extra good. Some sorts require digging, but the Oxheart can be easily pulled. It is especially adapted to shallow soils, where the longer sorts would not thrive as well.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

FOR OTHER VARIETIES
OF CARROTS, SEE
GENERAL LIST. * *

SEEDS OF SPECIAL MERIT—Continued



Country Gentleman Sweet Corn

Country Gentleman Sweet Corn

One of the Richest Flavored of all the late varieties. As a table Corn this variety stands unrivaled, and without doubt is the most luscious of all varieties of Sweet Corn. The plump, pearly-white kernels are of great depth, most delicious, and the flavor will delight an epicure. We have selected this sort for many years and are especially proud of our strain. It comes as true to type as any we have ever seen. Ears average 9 inches long by 2 inches in diameter and are of typical "shoe-peg" appearance.

15c pt., 25c qt. 5c pkt.

Postage must be added if wanted by mail.

Long Island Beauty Sweet Corn

A most prolific variety, quality extra good. One of the most desirable sorts for late planting. A great favorite with Long Island market growers; one of the ready sellers in the market.

15c pt., 25c qt. 5c pkt.

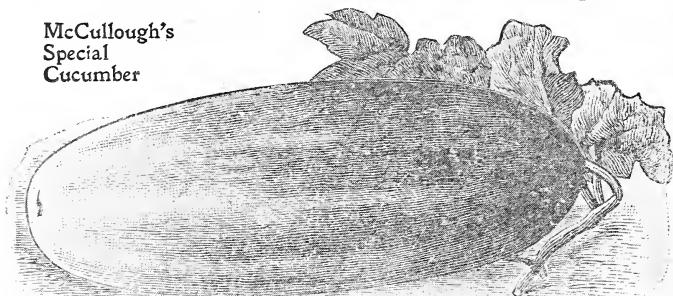
Postage must be added to price of corn if wanted by mail. See Postal Rates, Second Page of Cover.

McCullough's Paris Golden Yellow Celery

Extra selected stock, unsurpassed. We have been furnishing our customers this strain of Paris Golden Yellow Celery for a number of years and it is pronounced by one and all the finest strain they have ever seen. The color is a rich golden yellow, stalks are very solid and tender, flavor is delicious, has large heart, grows medium height, and is without doubt the best early Celery on the market. The demand for our strain of this variety is increasing every year and we advise our customers to order early, as supply is limited. We are confident you cannot obtain anywhere a strain of Paris Golden Yellow Celery superior to our own particular selected stock.

\$1.50 oz. 10c pkt.

McCullough's
Special
Cucumber



McCullough's Special Cucumber

An excellent Cucumber for both forcing and outdoor use. The fruits grow 11 to 15 inches long, slim, slightly pointed, a dark glossy green color, which they keep until ripe. In quality it is very tender, brittle and of fine flavor. A vigorous grower, withstanding blight better than other long sorts.

40c $\frac{1}{4}$ lb., \$1 25 1 lb. 5c pkt.

Golden Bantam Sweet Corn

It is not only the sweetest, but also one of the hardiest, and what it lacks in size is more than made up by its other grand qualities. The ears are from 6 to 7 inches long, eight rowed, filled with broad, sweet, golden yellow kernels of a delightful flavor. It may be planted with perfect safety ten days earlier than other Sweet Corns. The dry seed is quite solid and is not as apt to rot as that of the softer kinds. It is as early as the Cory and of much better flavor. One of the best sorts for successive plantings.

15c pt., 25c qt. 5c pkt.

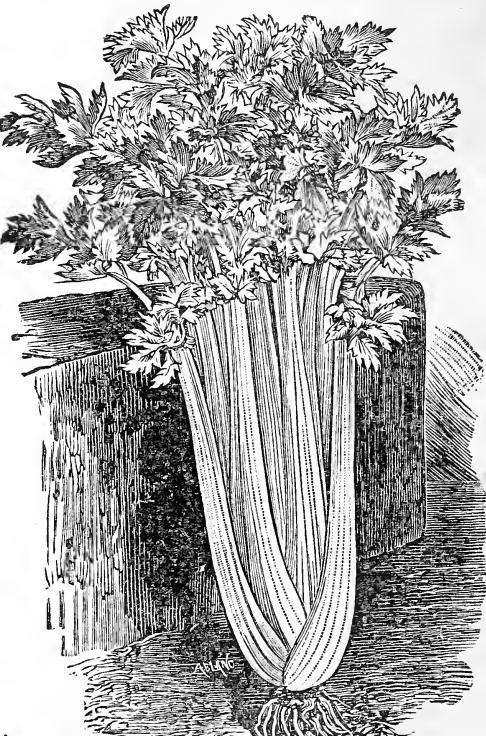
Postage Must be Added if Wanted by Mail.

Early Sheffield Sweet Corn

Very early variety. The stalks are strong and vigorous, bearing one or two fine ears to a stalk. The ears are large and entirely free from smut. The grains are of medium size, 10 or 12 rowed, well filled to each end of the ear; juicy, and of a fine sweet flavor.

15c pt., 25c qt. 5c pkt.

Postage must be added if wanted by mail.



Paris Golden Yellow Celery

To Insure Good Results Buy Your Seeds at the

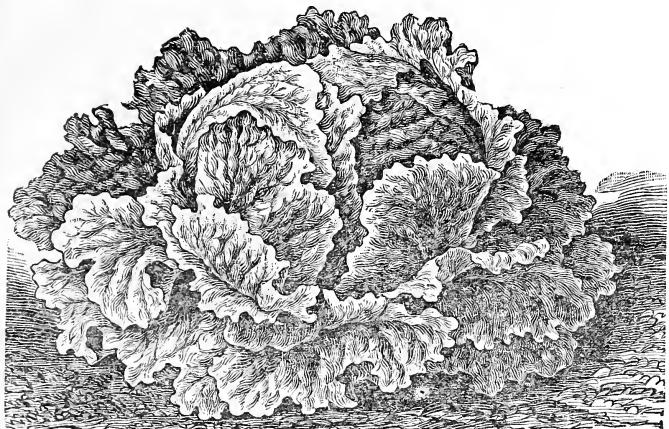
Original McCullough's Store

316 Walnut Street

Just below Fourth St. Our only Retail Store

FOR OTHER VARIETIES OF CELERY, CORN AND CUCUMBERS, SEE GENERAL LIST

SEEDS OF SPECIAL MERIT—Continued



McCullough's Nonpareil Lettuce

McCullough's Nonpareil Lettuce

The finest home garden and market variety. Its beautiful yellowish-green color, crimped, curled and well formed heads, tender quality and sweet flavor, place it at the head of the list for the market gardener or for family use. It withstands the heat of summer and retains its sweetness for a long time.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Big Boston Lettuce

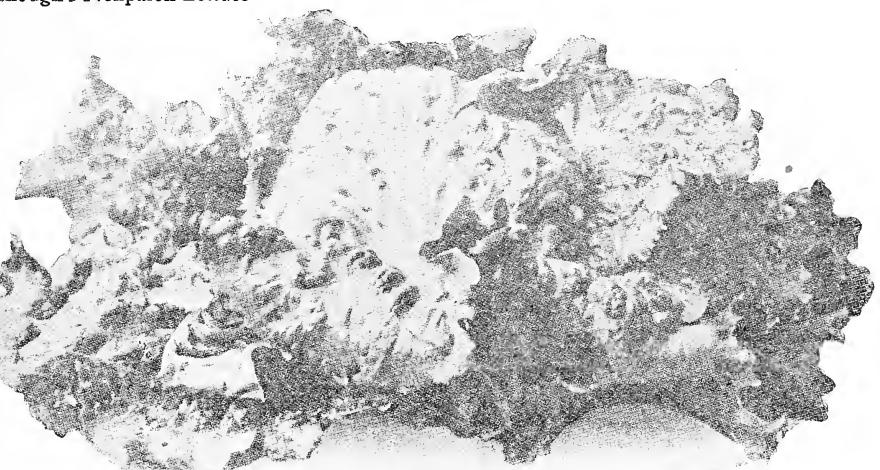
Probably better known and more largely planted than any other variety. Very solid with broad leaves; the best for outdoor or for forcing. Color light green, very attractive. We have made a specialty of this variety and have a stock of this most desirable and popular Lettuce that cannot be surpassed.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

May King Lettuce

A very early and extra fine variety for spring and fall use in the open garden; also for growing in cold frames during the winter months. The heads are 6 to 7 inches in diameter, with the light green outer leaves folding closely about the round, solid heads. The inner leaves are blanched to a golden yellow and have a fine, rich, buttery flavor.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.



May King Lettuce

Grand Rapids Lettuce

The great Lettuce—for indoors or out—the easiest of all to grow.

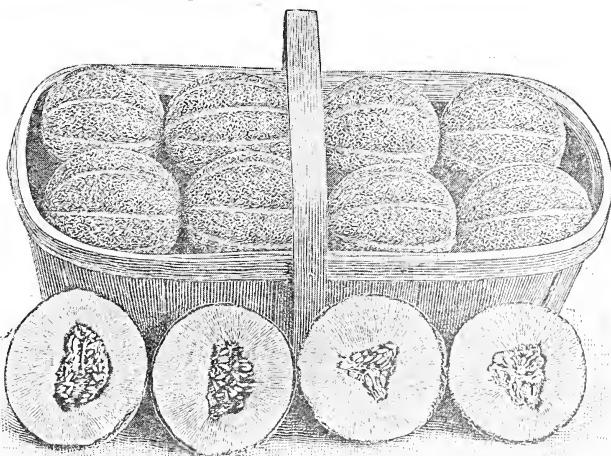
This is probably the best of the loose-leaved varieties. It never forms a head, but produces an abundant crop of pale green leaves, slightly but closely crumpled, which, even when old, retain their characteristic tenderness and brittle character. In this respect it excels many of the best heading varieties.

We strongly urge those who cannot succeed in getting Lettuce to head to grow Grand Rapids. 15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Rocky Ford Musk Melon

A variety extensively grown in Colorado. The reasons for the widespread popularity of these melons are their superb table and wonderful shipping qualities, which enables them to be carried great distances, and yet arrive in first-class condition for market. The fruit is of medium size, oval shaped, heavily netted and very solid. The flesh is green, thick and juicy. It is early and wonderfully productive.

10c oz., 25c $\frac{1}{4}$ lb.....5c pkt.



Rocky Ford Musk Melon

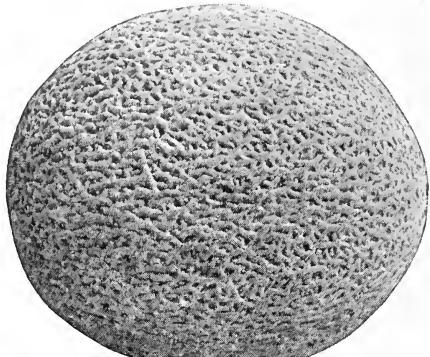
SEEDS OF SPECIAL MERIT—Continued

Delicious Gold Lined Musk Melon

It is of the Rocky Ford type but is much superior to this popular variety in every respect.

It is the result of several years' careful selection by a progressive grower. The shape of this Melon is ideal, being slightly oval and it is heavily netted over the entire surface. The flesh is as thick at the bloom end as elsewhere, and the flesh of the entire Melon is noticeably thick, fine grained and sweet. The color is green with a gold margin next to the seed cavity. Delicious Gold Lined is superior to ordinary types in shape, size and quality. It is attractive, both as to outward appearance and when cut.

½ oz., 15c; 1 oz., 25c; ¼ lb., 85c 10c pkt.



Delicious Gold Lined



Bush Musk Melon

The Bush Musk Melon grows a true bush and is different from any existing kind.

There are just as many leaves on the plant as on other kinds, but these grow so compactly that the plant can be grown on one-half the space usually required. Notwithstanding its departure from existing types it is by no means a freak.

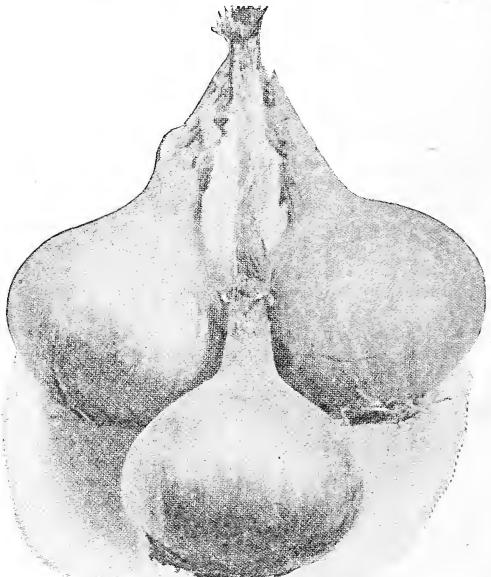
The fruit is fully equal in quality to the old and justly esteemed Jenny Lind, which is probably the best flavored of all green-fleshed sorts. They are produced in abundance, in fact we advise that each plant be allowed to ripen only about one-half of the fruit, as it is apt to bear too many.

It delights in a rich, preferably sandy, well manured soil, and responds favorably to frequent applications of water during drought. 15c ½ oz., 25c oz., 85c ¼ lb., 10c pkt.

Tom Watson Watermelon

An extra long melon of attractive appearance, uniform in shape and quality. The luscious crimson flesh is "as sweet as honey," and of superb flavor. The average melon will weigh 30 to 40 pounds and measure about 28 inches long and about 12 inches in diameter. It is very prolific, producing in greatest abundance the large delicious fruits. It is one of the very best Water Melons ever offered.

10c oz., 20c ¼ lb. 5c pkt.



Kleckley Sweets Watermelon

It is of superb, luscious flavor. While the skin is perhaps too thin to admit of the melons being shipped very great distances to market, it is most desirable to plant for home use or local markets. The melons themselves are very large, oblong in form, with dark green skin, thin rind, which is very brittle. Flesh is bright scarlet, with solid heart, deliciously crisp, sugary and splendid in every way.

10c oz., 20c ¼ lb. 5c pkt.

Yellow Globe Danvers Onion

A standard sort and one of the most desirable; an excellent keeper and very productive. Our strain of this variety is the true globe shape, and not of the flat type. Onion growers throughout the country prefer this type of onion to all others, and it is with this in view that the bulbs from which our seed is grown are specially and carefully selected as to shape. It is the best paying onion that is grown for general crop, and has been the leading variety for years.

15c oz., 50c ¼ lb. 5c pkt.

Prizetaker Onion

The large size and handsome appearance of this Onion makes it equally desirable for the home garden or for market. It is strictly "fancy" and will be found on fruit stands during the fall, where it is sold as Spanish Onion. The true Prizetaker Onion is globe-shape, has pale-yellow skin and white flesh, which is very mild and of delicate flavor. No sets are required, as the large Onions are grown the first year from seed sown during early spring.

20c oz., 60c ¼ lb. 5c pkt.

Yellow Globe Danvers Onion

SEEDS OF SPECIAL MERIT—Continued

Postage Must be Added to Price of Peas—5c pt., 10c qt., 15c 2 qts.; If Wanted by Mail.

McCullough's
"Ohio Chief" Pea

This new Pea is of the extra early type and from our trials and observation, it promises to prove the earliest Pea in the market. It grows about two feet high, stem strong, very vigorous and bears well-filled, round pods about three and a half inches long. It is a white seeded variety. All growers of Peas should give it a trial. 20c pt., 35c qt.....5c pkt.

McCullough's
"Maud S" Pea

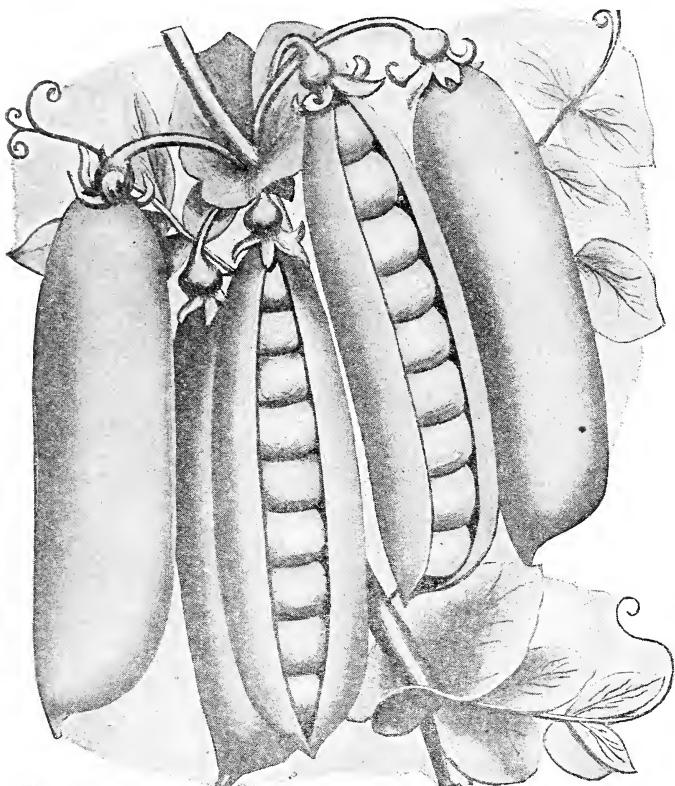
The earliest and most prolific Pea known. The pod is of a dark green color, of a full, round shape, and of strong texture which especially fits it for shipping long distances. For a late fall crop it has few equals, and is the market gardener's favorite for all seasons. The far northern point at which our Peas are grown renders them almost proof against cold, and the best for early spring or late fall crop. Thousands of market gardeners have pronounced this Pea unequalled in earliness, yield and regularity of growth. Make first planting as early in the spring as the ground will permit and cover well.

15c pt., 25c qt., 80c 4 qts., \$1.50 pkt., 5c pkt.

Laxtonian Pea

The pods of Laxtonian are very large, and are produced on a low-growing, sturdy vine, without support of any kind. Unlike many of its class, Laxtonian fills to the full its ample pods with large and luscious Peas. The flavor is just as rich and good as any of the later varieties, which entitles it to a permanent place in every garden. It is ready for use just about a week later than the very early sorts, and is incomparably good in quality. It is admirable for private gardens, where its abundant crop, produced so early in the season, is extremely welcome.

The plant is only 1½ feet high, branching in habit. Pods and plant are rich, dark green in color, revealing a constitutional strength which enables it to resist the extreme conditions to which Peas are subjected in many sections of the United States. 20c pt., 35c qt.....5c pkt.



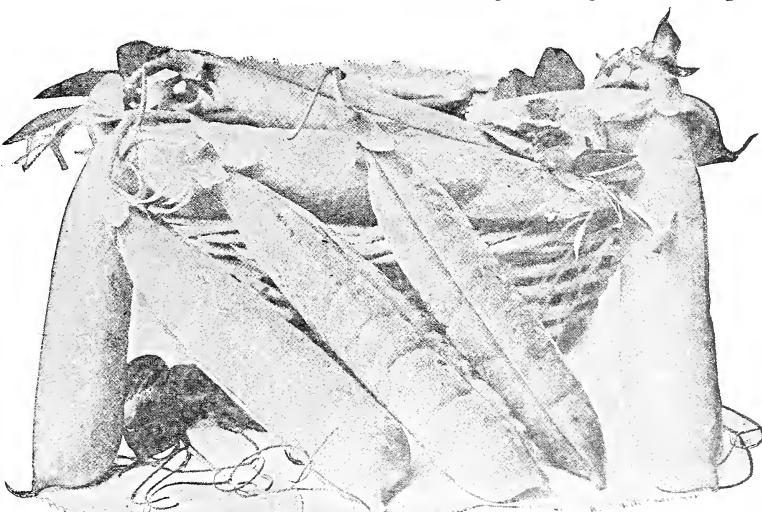
McCullough's "Ohio Chief" Pea

Sutton's
Excelsior Pea

This handsome wrinkled Pea is so hardy that it may safely be planted as early as the hard-seeded "Extra Earlies." The plants are dwarf, growing about 14 inches high, very stout and exceedingly productive, and the quality is all that could be desired. 20c pt., 30c qt., 5c pkt.

Little Marvel
Pea

We are listing this variety in our specialty pages as it is of such great merit that every one should buy it. As early as American Wonder and Nott's Excelsior, the pods are larger and the vines produce a much heavier crop. For quality and productiveness it is away ahead of everything in the way of extra early wrinkled peas. It is dwarf, growing about 15 inches high, and the plants are very productive, bearing many twin pods, which are dark green in color. 20c pt., 30c qt., 5c pkt.



Little Marvel Pea

Postage Must be Added to Price of Peas If Wanted by Mail—5c pt., 10c qt., 15c 2 qts.

FOR OTHER VARIETIES OF PEAS SEE PAGE 10 AND GENERAL LIST.



Harvester Pea

A new pea like Telephone only better. The vine is extra vigorous, and the pods of Alderman are dark green and always well filled with fine large peas. For a pea which should be staked there is none quite so good as Alderman. It is one of the finest of the large-podded summer varieties. The haulm grows five feet in height and is of a rich, dark-green coloring, as are also the large pods. Pods frequently measure nearly six inches in length and contain from ten to twelve very large peas of superior flavor.
15c pt., 25c qt., 90c 4 qts. 5c pkt.

The favorite late variety; extra large pods. This Pea has proved to be a most valuable introduction. Vine large, coarse leaves, height about 4 feet. The pods are very large and filled with immense peas, which are largest of any. Tender, sweet and of splendid quality and flavor. A valuable feature of this variety is that it continues in bearing for an extremely long time. The stock we offer has been selected with every care, and will give satisfaction to the most exacting grower.
15c pt., 25c qt., 90c 4 qts. 5c pkt.

Duke of Albany Pea

A large pea of Telephone type, growing about four feet high, producing heavy crops of pods which are of a deep green color, this characteristic making it very popular in some sections as a market garden variety. Its fine appearance and good quality have given it a place amongst the late varieties.
15c pt., 25c qt., 90c 4 qts. 5c pkt.

Admiral Dewey Pea

The largest podded Pea yet introduced. Height, 3½ feet; pods a rich, dark-green color, frequently 6 inches long, beautifully shaped. Peas large, tender and of fine flavor.
15c pt., 25c qt., 90c 4 qts. 5c pkt.

Postage Must be Added to Price of Peas if Wanted by Mail—5c pt., 10c qt., 15c 2 qts.

WE HANDLE PEAS BY THE CARLOAD.
 Write for Special Prices if You Use Them in
 Quantity.

SEEDS OF SPECIAL MERIT—Continued

Postage Must be Added to Price of Peas if Wanted by Mail—5c pt., 10c qt., 15c 2 qts.

The Harvester Pea

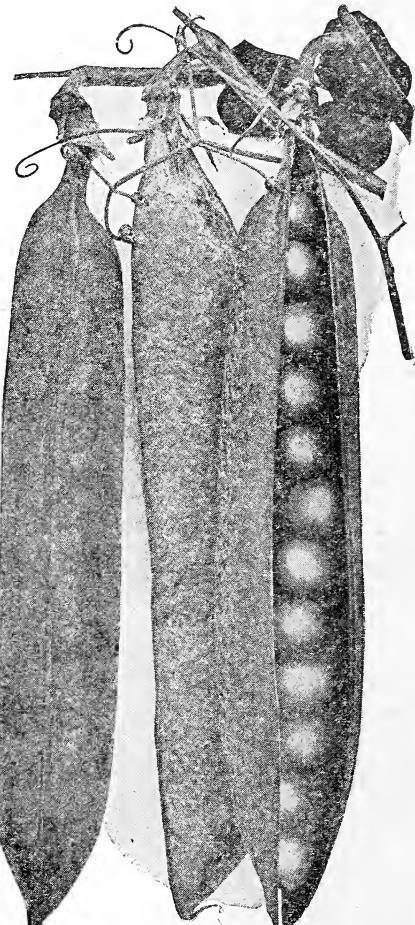
One of the best second early Peas and a grand variety for the home garden. The past summer, under adverse conditions, this variety yielded handsomely compared with other varieties at our trial ground. The pods contain frequently as many as 10 peas of delicious quality. It is wrinkled, grows about 18 inches to 20 inches high and is a grand producer. The vines are dark green in color and exceptionally sturdy. **25c pt., 40c qt. 5c pkt.**

Improved Stratagem Pea

A favorite with market gardeners and for the kitchen garden. Strong vines, immense pods, large peas, heavy cropper. The vines are strong, vigorous and covered with immense pods, many of which measure 5½ inches in length and containing as high as 10 large, richly flavored, wrinkled peas. Vines very strong and needing but slight support. Height, 2 to 2½ feet.
15c pt., 25c qt., 90c 4 qts. 5c pkt.

Alderman Pea

A new pea like Telephone only better. The vine is extra vigorous, and the pods of Alderman are dark green and always well filled with fine large peas. For a pea which should be staked there is none quite so good as Alderman. It is one of the finest of the large-podded summer varieties. The haulm grows five feet in height and is of a rich, dark-green coloring, as are also the large pods. Pods frequently measure nearly six inches in length and contain from ten to twelve very large peas of superior flavor.
15c pt., 25c qt., 90c 4 qts. 5c pkt.



Alderman Pea

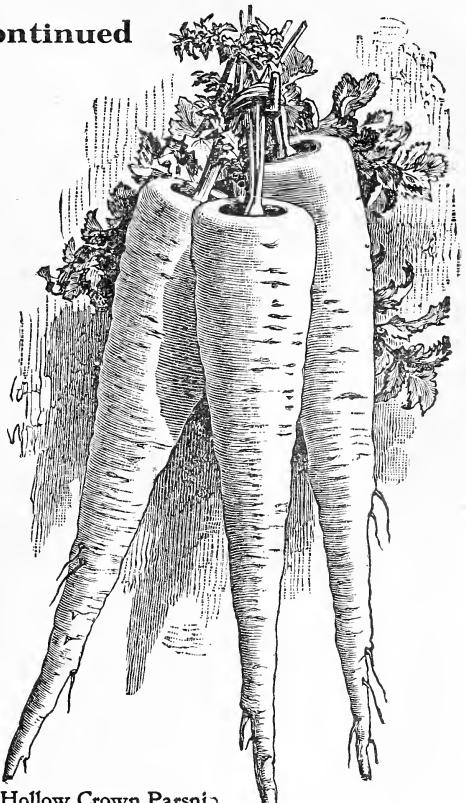
SEEDS OF SPECIAL MERIT—Continued

Hollow Crown Parsnip

Our selection of this highly esteemed vegetable is surely the best for the private garden. We have discarded all the types with slim, long roots that invariably break in digging, and offer only a shapely heavy shouldered strain with its greatest girth at the crown and gradually tapering to a small root. This is easily dug, and is suited to a greater variety of soils than any. To secure best results deep digging is essential, and the soil should be free from stone and well cultivated.

For winter use lay the roots horizontally in small boxes packed with ordinary garden soil, and store them in some convenient place outdoors away from snow or rain. Bring in a box as needed, thawing them out slowly in a moderate temperature. Frost improves their quality.

10c oz., 25c $\frac{1}{4}$ lb., 75c 1 lb. 5c pkt.



McCullough's Norwood Parsley

A distinct and handsome variety of quick, robust growth forming compact, ornamental plants, densely furnished with strong-stemmed graceful leaves, finely cut, most beautifully curled and of that brilliant emerald-green color so highly attractive when used for garnishing. The flavor of the leaves is also unusually rich and aromatic, rendering this variety of special value where used for flavoring, in sauces, dressing, etc., either when fresh or dried.

15c oz., 40c $\frac{1}{4}$ lb. 5c pkt.

Pepper and Pumpkin

See General List

Special prices given to market Gardeners and others who use Seeds in large quantities.
SEND LIST OF WANTS AND GET ESTIMATE.



McCullough's Cincinnati Market Radish

We were the first to introduce this remarkable radish, which has proven one of the best long Radishes ever offered.

It is largely grown by the Cincinnati market gardeners. The tops are so small that the radishes may stand touching each other in the rows. They grow perfectly straight and smooth and from six to seven inches in length. Their attractive, glossy, scarlet skin is very thin and the flesh crisp and brittle, and of delightful pungent flavor. It is the finest Long Red Radish for forcing and outsells any other that is put in competition with it on the market. Being long standing, it is also an extra fine sort for the home garden, entirely exempt from any tendency to become pithy or hollow.

10c oz., 25c $\frac{1}{4}$ lb., 75c 1 lb. 5c pkt.

White Icicle Radish

The finest early, long, white Radish; the young Radishes are ready for use in 25 days, and continue to grow for a long time, fully retaining their crisp tenderness and mild flavor until quite large.

These Radishes are transparent white, have small tops, allowing close planting, and are very crisp and brittle. A feature greatly in its favor is that it remains in good condition while growing for a long time, thus allowing a continuous pulling from the same planting.

10c oz., 25c $\frac{1}{4}$ lb., 75c 1 lb. 5c pkt.

Crimson Giant Forcing Radish

This variety is suitable both for forcing or early planting out of doors. A remarkable feature of this Radish is that it will grow double the size of other round red forcing Radishes and still remain solid. The ordinary forcing Radish, after growing to the size of 2 inches in circumference, becomes pithy, while the Crimson Giant will grow to 6 inches in circumference, and still remain solid and juicy, free from all signs of becoming soft.

10c oz., 25c $\frac{1}{4}$ lb., 75c 1 lb. 5c pkt.

Earliest White Globe Forcing Radish

The earliest white olive-shaped Radish in existence, beautiful transparent ivory-white skin, very small root, small top; flesh white, tender and crisp. It is particularly adapted to forcing in greenhouse or hot-bed, also does well in open ground.

10c oz., 30c $\frac{1}{4}$ lb., \$1 00 1 lb. 5c pkt.



McCullough's Norwood

New Dwarf-Giant Tomato

This is much the largest fruited of all dwarf Tomatoes! The fruits are uniformly large throughout the season. They are produced in clusters of four to six and weigh from ten to twenty ounces each. The color is a rich purple-crimson and the depth of color is maintained throughout the entire fruit. The firm fine-grained flesh extends to the very center, with no trace whatever of a core. It is a mid-season or main-crop Tomato. It ripens a week to ten days earlier than *Ponderosa* and the plants continue to mature the superb "giant-solid" tomatoes, in abundance, until frost. **40c oz., \$1.25 $\frac{1}{4}$ lb.....5c pkt.**

The Stone Tomato

The largest, bright red, perfectly smooth, highest yielding, best keeping, finest flavored main - crop variety in existence.

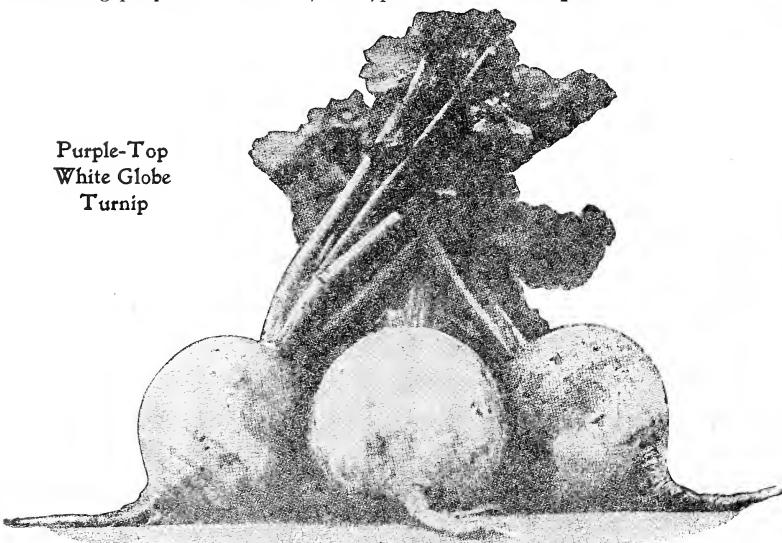
McCullough's selected stock. Fruit very large and deep; bright scarlet; smooth; ripening evenly to the stem without a crack; exceedingly solid and firm-fleshed, of the finest quality. The plants grow vigorously and are very productive; the Tomatoes are heavy and thick-meated, making it an extremely valuable variety for family use and for canning purposes. **25c oz.; 60c $\frac{1}{4}$ lb.....5c pkt.**



Stone Tomato

Ponderosa Tomato

One of the largest fruited tomatoes. The handsomest and finest quality; the fruits are of a purplish-pink color, very solid and ripen early. Nearly seedless, with firm, meaty, rich red flesh; unequalled and delicious either sliced, cooked or canned; a healthy, luxuriant grower, and continuous yielder from early in the season until frost. **30c oz., 90c $\frac{1}{4}$ lb.....5c pkt.**



Purple-Top
White Globe
Turnip

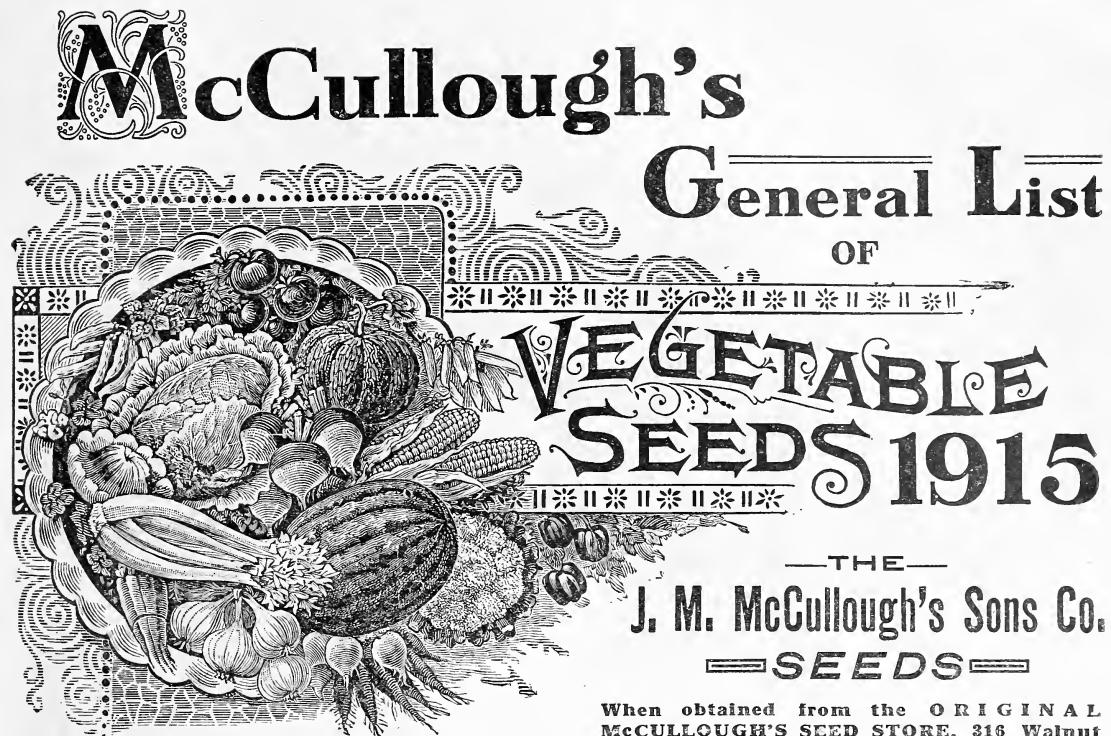
Purple-Top White Globe Turnip

A variety of decided merit. Of globular shape, very handsome and of superior quality, either for the table or stock. It is a heavy producer, early, of rapid growth and an excellent keeper. **10c oz., 25c $\frac{1}{4}$ lb., 60c lb. 5c pkt.**

For other varieties of Tomatoes and Turnips see General List.

SEEDS OF SPECIAL MERIT — Continued**McCullough's Norwood Tomato**

The first large tomato to ripen. The plants are strong and vigorous, bearing an abundance of large smooth fruit of a beautiful purplish crimson color, which is produced in clusters of four to six, is large, of perfect shape, and retains its size until late in the season. The flesh is remarkably thick, firm and solid, and of the finest quality, with few seeds. It is an excellent shipper. Does not crack or rot; oz., **30c; $\frac{1}{4}$ lb., 80c5c pkt.**



General List OF

VEGETABLE SEEDS 1915

—THE—
J. M. McCullough's Sons Co.
—SEEDS—

When obtained from the ORIGINAL
McCULLOUGH'S SEED STORE, 316 Walnut

Street, Cincinnati, Ohio, have proven for SEVENTY-SEVEN YEARS to be a standard among the Florists, Gardeners and Amateurs of this Country for undoubted PURITY and EXCELLENCE.

We always endeavor to make highest quality a first consideration, and then to make our prices as low as good, honest seeds can be sold. Our prices will be found as low as those of any other reliable house for seeds of the highest standard of excellence.

The Cultural Directions given in this catalogue for growing Vegetables have been thoroughly revised and are for the latitude of Southern Ohio. Persons living in a more southern latitude should start earlier, while those living farther north should begin to plant later.

POSTAGE

When ordering CORN, PEAS OR BEANS to be forwarded by mail be sure to add 5c per pt.; 10c per qt.; 15c for 2 qts.—for POSTAGE. ALL OTHER VEGETABLE seeds offered in PACKETS, OUNCES, QUARTER POUNDS and POUNDS are sent free by mail at prices quoted, except where otherwise noted.

Discount on Packets of Seeds.—For 25 Cts. select 6 Five-cent or 3 Ten-cent Packets. For 50 Cts. select Packets to the amount of 65 Cts. For \$1.00 select Packets to the amount of \$1.30. For \$2.00 select Packets to the amount of \$2.65. For \$3.00 select Packets to the amount of \$4.00.

These prices do not refer to Seeds offered by weight or measure, but to Seeds in Packets only.

Artichoke

The Globe Artichoke is cultivated for its flower-heads, which are cooked like Asparagus. Plants set in any good soil, with slight covering in winter, will remain in bearing several years. Seeds may be sown indoors and plants potted same as the Tomato and set out in May, or can be sown in hills outside, and thinned out to one plant in hill.

Large Green Globe. 25c oz., 90c $\frac{1}{4}$ lb....5c pkt.

Asparagus Seed

One ounce will produce about 400 plants.

Culture.—Any good loamy, not too weedy, garden land is good for growing the plants. Sow in rows 12 to 15 inches apart, as early in spring as the ground is in fit condition, and give good cultivation; also thin the plants to stand 2 or 3 inches apart. Deep, warm, rich, loamy soil, deeply and thoroughly stirred, is required for permanent bed. Use manure and fertilizers freely. Make furrows 4 or 5 feet apart and 6 to 8 inches deep. Set the one or two-year-old

seedlings 2 feet apart in the bottom of furrows and cover lightly at first. Gradually fill in with soil and old compost. In early spring fork or plow the bed shallow and carefully, or pulverize the surface by harrowing. Give clean cultivation until fall; then cover with manure or compost. Second season after planting hill up the rows, especially for blanched grass, and cut sparingly for use. After that the bed will give full crops.

Palmetto. An early, prolific and very desirable variety. 10c oz., 25c $\frac{1}{4}$ lb.....5c pkt.

Columbian Mammoth White. Large, white stalks. 10c oz., 25c $\frac{1}{4}$ lb.....5c pkt.

Conover's Colossal. Large and productive. 10c oz., 20c $\frac{1}{4}$ lb.....5c pkt.

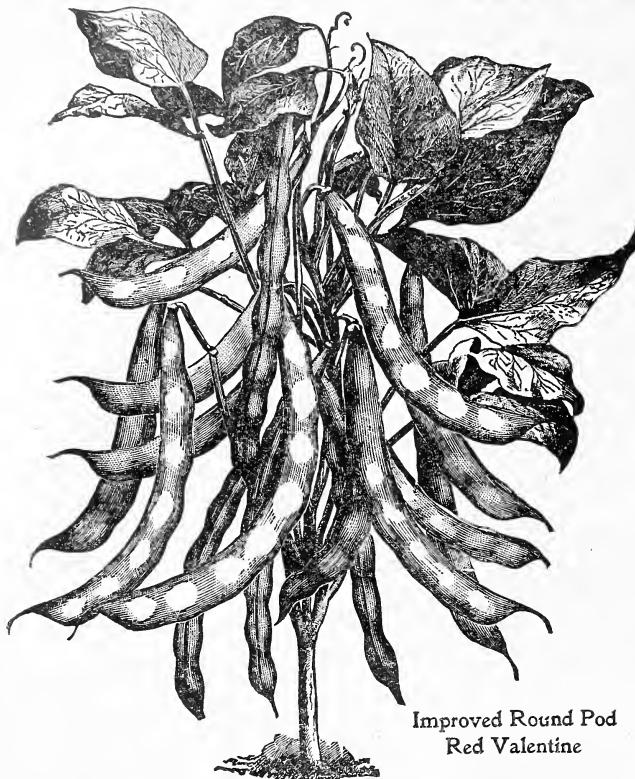
Argenteull. This variety is largely grown in France for the Paris market. The stalks grow to a mammoth size. 15c oz., 40c $\frac{1}{4}$ lb....5c pkt.

Barr's Mammoth. A fine, large-stemmed green variety. 10c oz., 25c $\frac{1}{4}$ lb.....5c pkt.

Asparagus Roots

(See end of the list of Vegetable Seeds.)

BEANS



Improved Round Pod
Red Valentine

Improved Refugee, or Thousand to One. Medium or late variety; grown for pickling. 15c pt.; 25c qt.; \$1.75 pk.....5c pkt.

Long Yellow, Six Weeks. Very early, productive, and a good shell bean. 15c pt.; 25c qt.; \$1.75 pk..5c pkt.

Beans, Dwarf or Bush, Wax or Yellow-Podded Varieties

If wanted by mail add 5c pt., 10c qt., 15c 2 qts., for postage.

Round Pod Kidney Wax—(See Page 1)

20c pt., 35c qt.....5c pkt.

Michigan White Wax. A white-seeded Golden Wax Bean of superior quality, attractive appearance and great productiveness. The plant grows larger than Golden Wax, and produces an abundant crop of large, meaty pods, which are of a bright golden-yellow color, exceedingly attractive and very uniform in color and shape. 20c pt., 35c qt., \$2.25 pk.....5c pkt.

Golden Wax, Improved. One of the best strains of Golden Wax. Prolific, of best quality; pods long, straight, thick and vines very erect. 20c pt., 35c qt., \$2.25 pk.....5c pkt.

Davis White Kidney Wax. Very productive, white-seeded, rustless, string or snap variety; long, flat pods, which are very tender while young. Excellent flavor and very hard. The dry, white beans are good for cooking purposes. 20c pt., 35c qt., \$2.25 pk.....5c pkt.

Wardwell's Kidney Wax. One of the earliest, hardest and most productive; is almost entirely free from rust and spots. The pods are long and showy, very tender, stringless and of excellent quality. 20c pt., 35c qt., \$2.50 pk.....5c pkt.

Currie's Rustproof Wax. Pods long, flat, tender; early, productive. 20c pt., 35c qt., \$2.25 pk.....5c pkt.

Black Wax Improved. Very early and prolific; pods round, full and stringless. 20c pt., 35c qt., \$2.25 pk.....5c pkt.

Special Prices given to Market Gardeners and others who use Seeds in large quantities.

Dwarf or Bush

Culture.—Beans are somewhat tender, but it often pays to take some risks. Plant in warm, loamy soil at the beginning of settled, warm weather in spring, and at intervals for succession until August. Rows may be made 2 feet apart, and the Beans planted a few inches apart in the drills, or 3 or 4 Beans in hills 6 to 8 inches apart. Cultivate and hoe frequently always however, when the vines are perfectly dry. In hoeing draw the soil up towards the rows or plants. For String Beans, gather the pods clean as soon as fit for use. The plants will remain all the longer in bearing. One quart will plant 100 feet of drill.

If Wanted by Mail, Add 5c pt., 10c qt., 15c for 2 qts., for Postage.

Green Podded Varieties

Norwood Stringless Green Pod. This variety is superior to any other green-podded bean grown. (See Page 1.) 20c pt., 30c qt., \$2.00 pk.....5c pkt.

McCullough's Improved Round Pod Red Valentine. Our stock of this is extra choice. (See Page 1.) 20c pt., 30c qt., \$1.75 pk.....5c pkt.

Bountiful. An improved Long Yellow Six Weeks. Pods grow to large size, are broad and fleshy, cooks tender. 20c pt., 30c qt., \$1.75 pk.....5c pkt.

Burpee's Stringless Green Pod. This variety is stringless and remains tender and crisp. The pods are pale green, long and straight, perfectly round and meaty, maturing with the earliest of the green pod varieties. 20c pt., 30c qt., \$2.00 pk.....5c pkt.

Black Valentine. This variety is very productive. Pods are extremely long, round and straight, and are quite attractive in appearance. The quality is also good, pods being decidedly tender. Suitable for both early and late planting, being extremely hardy. It will withstand early and late frosts. 20c pt., 30c qt., \$2.00 pk.....5c pkt.

Tennessee Green Pod. A very recent introduction, very meaty flat pods of large size and good flavor. Dwarf vine with heavy foliage. It is very hardy and an excellent cropper on poor soil or hillside. 20c pt., 30c qt., \$2.00 pk.....5c pkt.

Black Wax Pencil Pod. Pods long, pencil-like, very tender and brittle. Color rich, dark yellow. It remains in good picking condition for a long season. Very prolific. 20c pt., 35c qt., \$2.25 pk.....5c pkt.

Valentine Wax. The earliest Wax Bean. The pods are round, very meaty, and with so very little string that they may justly be called stringless. 20c pt., 35c qt., \$2.25 pk.....5c pkt.

Dwarf Shell Beans

Horticultural Dwarf. Excellent quality as a shell bean either green or dry. 20c pt., 30c qt., \$1.75 pk.....5c pkt.

White Kidney, or Royal Dwarf. A superior kind for baking, and is also excellent when shelled green. 15c pt., 25c qt., \$1.50 pk.....5c pkt.

Red Kidney. Similar to White Kidney, except in color. 15c pt., 25c qt., \$1.50 pk....5c pkt.

White Marrowfat. Grown for sale as a dry bean for winter use; excellent shelled, either green or dry. 15c pt., 20c qt., \$1.25 pk....5c pkt.

Mexican or Prolific Tree. Grows 18 inches high, branching like a tree, bearing its pods so high that they do not touch the ground. 15c pt., 20c qt., \$1.25 pk.....5c pkt.

Navy. The old standard sort for winter use. 15c pt., 20c qt., \$1.25 pk.....5c pkt.



Lazy Wife Pole Bean

Dwarf or Bush Lima

Fordhook Bush Lima.	It so far surpasses all other varieties that there is scarcely a chance for comparison. (See Page 2.)	20c pt., 35c qt.,	5c pkt.
Burpee's Bush Lima.	The true bush form of the old, large Lima Pole Bean. (See Page 2.)	20c pt., 30c qt., \$2.00 pk.	5c pkt.
Henderson's Bush Lima.	For convenience and practical use in the home garden it is a really good thing. It grows without the aid of poles, in compact bush form, about 18 inches high.	20c pt., 30c qt., \$2.00 pk.	5c pkt.

Pole Lima

Postage Must be Added if Wanted by Mail.

McCullough's Extra Large Lima.	A choice selection of the Large Lima. It produces pods and beans of large size and in great abundance. This variety is without doubt the best for private gardens. The quality is much better than any other variety, the Beans cooking rich and mealy.	20c pt., 30c qt., \$1.75 pk.	5c pkt.
Early Leviathan Lima.	The earliest variety of Pole Lima; produces pods in clusters. A good variety where the season is short.	20c pt., 30c qt.,	5c pkt.
King of the Garden Lima.	A vigorous grower, bearing profusely. The beans are large and of rich flavor.	20c pt., 30c qt.,	5c pkt.
Selbert's Early Lima.	The earliest of all the large Limas. Vine is hardy and vigorous, continues in bearing longer than any other, fine quality.	20c pt., 30c qt.,	5c pkt.

Special Price given to those who use Beans in quantity. Write for Estimate.

Pole Beans

The Pole or Running varieties are tender and should be sown two weeks later than Bush Beans. They succeed best in sandy loam, which should be liberally enriched with manure. Form hills 3 to 4 feet apart; plant 6 to 10 beans in a hill, 2 inches deep, leaving space in center for the pole. When well started, they should be thinned to from 4 to 6 plants in a hill. One quart will make 100 to 200 hills, according to size of the beans.

Postage Must be Added if Wanted by Mail.

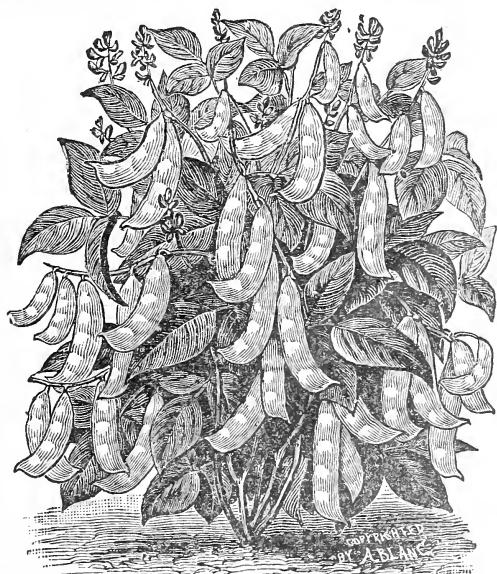
Kentucky Wonder, or Old Homestead. (See Page 2.)	20c pt., 30c qt., \$2.00 pk.	5c pkt.
Cut Short, or Corn Hill. Used among corn; the best for this section.	20c pt., 30c qt., \$1.75 pk.	5c pkt.
Horticultural (Wren's Egg, or Speckled Cranberry). Productive and tender; is an excellent corn bean.	20c pt., 30c qt., \$1.75 pk.	5c pkt.
Lazy Wife. An excellent late green podded pole bean. Pods of medium dark green color; broad, thick, very fleshy and entirely stringless. The pods remain green and tender until nearly ripe. Beans are white, and excellent as shell beans for winter use.	20c pt., 35c qt., \$2.25 pk.	5c pkt.
White Creaseback. A good grower and very productive. Pods 5 to 6 inches long, perfectly round, with a crease in the back. The pods are stringless, fleshy and of good quality.	20c pt., 30c qt., \$1.75 pk.	5c pkt.
White Sickle. Somewhat like the Kentucky Wonder, but has a nice white bean when dry and makes an excellent shell bean for winter. Very popular in the South.	20c pt., 30c qt.,	5c pkt.
Ohio Wax Pole. (See Page 2.)	20c pt., 35c qt., \$2.25 pk.	5c pkt.
Golden Cluster Wax. The pods are from 6 to 8 inches long, stringless, very tender and of delicate flavor.	20c pt., 30c qt.,	5c pkt.
Scarlet Runner. An ornamental climber. Bright scarlet flowers.	25c pt.,	5c pkt.

Lima Beans

Select land that is especially warm, rich, and well supplied with vegetable fibre or humus. Plant as soon as the soil has become warm in the spring. Plant bush varieties in rows two feet apart and give to each plant six inches space in the row.

Plant pole varieties in hills about three feet apart, and one to two inches deep, using five or six seeds to each hill, and set a pole firmly in the center. Manure liberally in the hill with well-composed fertilizer. Thin the plants, leaving three in each hill. Many cultivators consider it best, in planting Limas and other flat beans, to place the eye down, claiming in this way that they will germinate more quickly. Lima Beans for early use may be grown in frames and transplanted.

If to be sent by mail, add 5c pt., 10c qt., for postage.



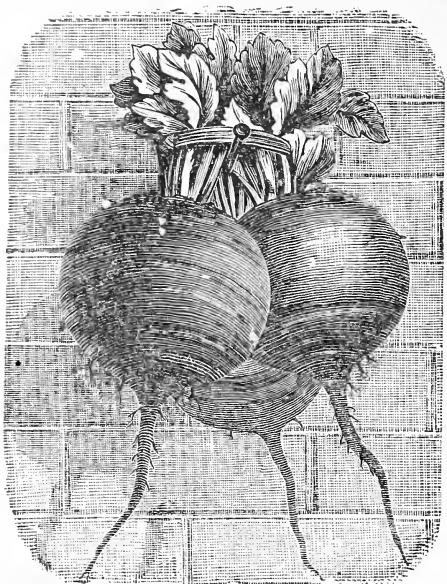
Burpee's Bush Lima

BEETS

One ounce will sow 50 feet of drill; 5 to 6 pounds for an acre.

Culture.—Fibrous loam, well-drained and well-enriched, will raise good Beet crops. For early table Beets, have drills 16 to 20 inches apart, and sow the seed about 1 inch deep, as early as the ground can be put in good shape. Or seed may be sown under glass four weeks sooner, and the young seedlings transplanted to open ground, to give an extra early crop. Give thorough and clean cultivation, and thin the plants to stand 3 to 4 inches apart in the rows. For succession sow at intervals until middle of July.

SPECIAL PRICES GIVEN TO MARKET GARDENERS.



Eclipse Beet

McCullough's Norwood.	One of the most uniform of all Beets, with small tops of bronzy red. The bulbs are handsome and round, smooth, and of good marketable size. Skin, deep blood-red; the flesh dark. (See Page 2.)	5c pkt.
Arlington.	A dark-leaved, early blood variety, closely following Eclipse in maturing, but of much darker color and superior quality. An excellent Beet for market gardeners.	
	10c oz., 35c $\frac{1}{4}$ lb.	5c pkt.
Bassano. (The Table Sugar Beet.)	A very early flat variety, tender, juicy; flesh white and rose-colored, very sweet.	
	10c oz., 35c $\frac{1}{4}$ lb.	5c pkt.
Columbia.	One of the finest main-crop Beets. Flesh deep blood-red, and of rich flavor. The roots can be used when only partially grown.	
	10c oz., 35c $\frac{1}{4}$ lb.	5c pkt.
Crimson Globe.	A handsome early or main-crop variety, of medium size, almost globe shaped and entirely free from rootlets. Foliage rich bronzy purple. The flesh is blood-red, slightly zoned.	
	10c oz., 35c $\frac{1}{4}$ lb.	5c pkt.
Crosby's Improved Egyptian.	An improved strain of the Egyptian Beet, especially recommended as an extra early sort. It is much thicker than the original strain.	
	10c oz., 35c $\frac{1}{4}$ lb.	5c pkt.
Detroit.	Color of skin dark blood-red; flesh bright-red, zoned with a lighter shade, very crisp, tender and sweet.	
	10c oz., 35c $\frac{1}{4}$ lb.	5c pkt.
Early Blood.	Flesh dark red color; a standard round variety, with small top.	
	10c oz., 35c $\frac{1}{4}$ lb.	5c pkt.
Eclipse.	One of the best early sorts, with a small tap root and small collar. Flesh dark red, zoned with a lighter shade, sweet, crisp and tender, especially when young.	
	10c oz., 35c $\frac{1}{4}$ lb.	5c pkt.
Edmand's Early.	Uniform small top, bronzy red. Exceedingly tender and sweet; skin blood-red; flesh dark red.	
	10c oz., 35c $\frac{1}{4}$ lb.	5c pkt.
Egyptian Extra Early.	One of the earliest, of good quality and medium size; a fine forcer, small top.	
	10c oz., 35c $\frac{1}{4}$ lb.	5c pkt.
Fireball.	A distinct extra early variety of the finest table quality. (See Page 2.)	
	15c oz., 50c $\frac{1}{4}$ lb.	5c pkt.
Half Long Blood.	One of the best for winter use. Roots are only half as long as the Long Blood, but weigh as much on account of their thickness.	
	10c oz., 25c $\frac{1}{4}$ lb.	5c pkt.
Long Dark Blood.	A good late variety for fall and winter use; sweet and tender.	
	10c oz., 25c $\frac{1}{4}$ lb.	5c pkt.
Swiss Chard.	The mid rib is stewed and served like asparagus, and the leaves used same as spinach.	
	10c oz., 30c $\frac{1}{4}$ lb.	5c pkt.

Mangel Wurzel

Sow 6 lbs. to acre, in May or June, in rows 2 feet apart, and thin to 9 inches.

Mammoth Long Red. Roots of large size and excellent quality; 15c $\frac{1}{4}$ lb., 35c 1 lb., \$3.00 10 lbs.

Yellow Globe. Of large size and globular form; very productive.

15c $\frac{1}{4}$ lb., 35c 1 lb., \$3.00 10 lbs.

Red Globe. Large, red, oval; keeps well; large crops on shallow soil; 15c $\frac{1}{4}$ lb., 35c 1 lb., \$3.00 10 lbs.

Golden Tankard. Bright yellow, large, handsome, heavy cropper, splendid quality. 15c $\frac{1}{4}$ lb., 35c 1 lb., \$3.00 10 lbs.

Sugar Beets—For Stock

Sow same as Mangels, except thin to 6 to 8 inches in the row. Sugar beets are not as heavy yielders as the Mangels, but are of superior quality, containing a large amount of sugar. They are excellent for feeding cows, improving wonderfully the quantity and quality of the milk. **Five to six pounds of seed required per acre.**

Vilmorin's Improved. A medium sized white Sugar Beet brought by the most careful selection to the highest perfection, both in shape and color of roots. Greatly esteemed by sugar manufacturers. 15c $\frac{1}{4}$ lb., 35c 1 lb., \$3.00 10 lbs.

Lane's Imperial. One of the best for field culture; early, large and productive. 15c $\frac{1}{4}$ lb., 35c 1 lb., \$3.00 10 lbs.

Broccoli

Sow in beds middle of spring, transplant and cultivate the same as cabbage.

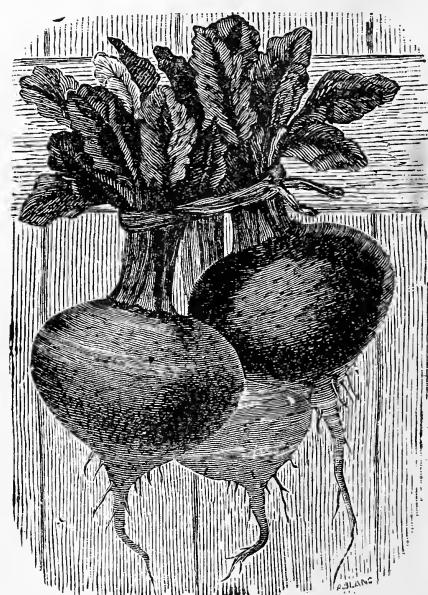
Early Large White. 25c oz. 5c pkt.

Early Purple Cape. 25c oz. 5c pkt.

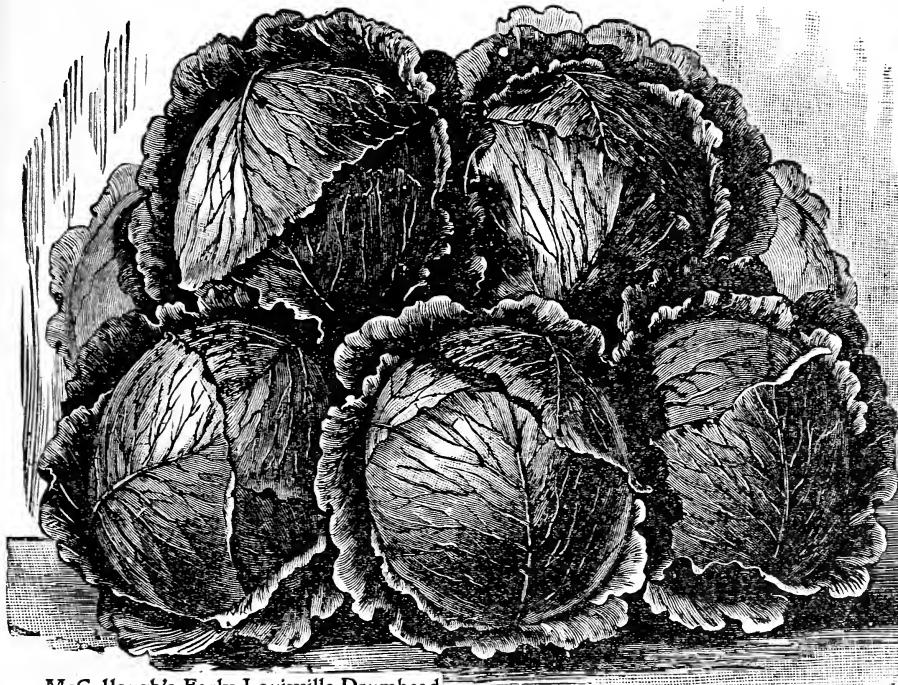
Brussels Sprouts

Produces small heads, resembling miniature cabbages. Sow in May and manage as winter cabbage.

Dwarf Improved. 25c oz. 5c pkt.



Arlington Beet



McCullough's Early Louisville Drumhead

CABBAGE

Culture.—For plants of the earliest sorts sow seed in January or February under glass, and prick out in flats or frames about 2 inches apart each way. Transplant to open ground as soon in spring as the land can be properly prepared. A rich, warm, fibrous loam is best. Have the plants in the rows 20 to 24 inches apart, and rows at least 2 feet apart. Give thorough cultivation, and irrigate in dry weather if practicable. Protect against the ravages of cutworm, maggot and green worm. A little nitrate of soda applied around the plant is of great benefit. Potash applications, such as wood ashes or muriate, may also do much good. For late Cabbage plants, sow seed in drills in open ground during April and May, and transplant in June and July, giving the plants more room than allowed for earliest Cabbages. Dusting with tobacco dust, insect powder, etc., or splashing with soapsuds, especially Fish-Oil Soap solution, are good and safe remedies for some of the insect pests attacking plants of the Cabbage. **Sow one ounce for 2000 to 2500 plants; 5 ounces for one acre.**

McCullough's Louisville Drumhead. Originated by us many years ago, and is still the peer of all other varieties for early market purposes through'out this section. It is highly esteemed by the market gardeners, and it will stand hot weather better than any other sort; will stand the entire summer without bursting; in fact, we produced heads that weighed 18 pounds on September 1, having been planted with Jersey Wakefield, which was long unfit for use. Our Louisville forms large, solid heads, and is the earliest large-heading variety, while, if planted later, it makes excellent heads for winter. The quality is very fine, and is remarkable for its certainty to head. For winter use, sow later in the season. We have received expressions of unanimous praise from all parts of the country, and could fill many pages of our catalogue with testimonials. **20c oz., 60c $\frac{1}{4}$ lb. 5c pkt.**

McCullough's Early Market. A new, early, round head Cabbage. (See Page 3.) 40c oz. \$1.25 $\frac{1}{4}$ lb. 5c pkt.

Early Jersey Wakefield. A leading early variety. (See Page 3.)

Copenhagen Market. New Early Cabbage. (See Page 4.)

40c oz., \$1.25 $\frac{1}{4}$ lb..... 5c pkt.

Charleston, or Large Wakefield. Large, solid heads, of good quality, a few days later than Early Jersey Wakefield. Especially recommended for institutions and market gardeners. (See Page 3.)

20c oz., 60c $\frac{1}{4}$ lb.....	5c pkt.
Early Winnigstadt.	Conical shape; quality very good.

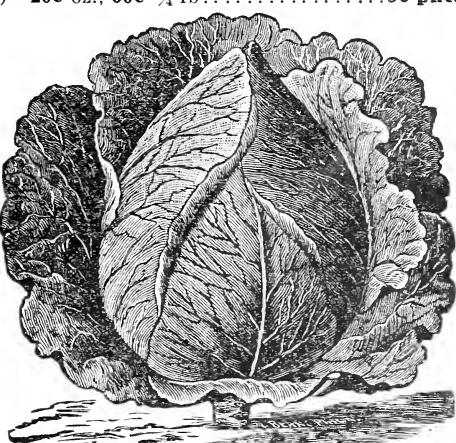
Early Summer. A second early with large, solid, flattish

All Head, Early. The largest heading of the second early heads, coming in a few days later than the Wakefield; a sure header. **20c oz., 60c 1/4 lb. 5c pkt**

Early Dwarf Flat Dutch. Large, solid heads, of fine flavor. An excellent variety. **15c oz., 50c 1/4 lb. 5c pkt.**

Cabbage Plants. (See end of Vegetable Seeds.)

FREE DELIVERY—We deliver free by mail or express, our option, all vegetable or Flower Seeds by the packet, ounce, quarter-pound and pound unless otherwise quoted. We do not deliver Beans, Corn or Peas except in packets.



Charleston Walkfield

CABBAGE—Continued

Glory of Enkhuizen.	One of the earliest with large, solid heads; fine ribbed and first quality. (See Page 3.)	25c oz., 75c $\frac{1}{4}$ lb.....	5c pkt.
All-Seasons (Vandergraw).	An early Drumhead Cabbage, yielding large heads.	20c oz., 60c $\frac{1}{4}$ lb.....	5c pkt.
Danish Round Red. (See Page 4.)	25c oz., 80c $\frac{1}{4}$ lb.....	5c pkt.	
Danish Ballhead. (Danish Grown.)	Heads of good marketable size, averaging about 8 pounds, nearly round, solid and superior quality. As a keeper it excels all others, the heads taken out in the spring being in every way in as good condition as when stored.	25c oz., 80c $\frac{1}{4}$ lb.....	5c pkt.
Large Late Drumhead.	A favorite winter variety. The heads grow to very large size and heavy weight. They are solid, of good quality and texture, and have few loose leaves.	15c oz., 50c $\frac{1}{4}$ lb.....	5c pkt.
Surehead.	This is a good strain of late Flat Dutch, having great reliability for heading. The heads grow large, and are of good texture. It is also a good keeping variety.	70c oz., 60c $\frac{1}{4}$ lb.....	5c pkt.
McCullough's Premium Late Flat Dutch.	A variety for winter market; has no superior. (See Page 4.)	15c oz., 50c $\frac{1}{4}$ lb.....	5c pkt.
Succession.	A good second early round-headed sort.	20c oz., 60c $\frac{1}{4}$ lb.....	5c pkt.
Autumn King.	A fine strain of late Cabbage. It produces regular, even heads of enormous size, with few outer leaves.	20c oz., 60c $\frac{1}{4}$ lb.	5c pkt.

SAVOY CABBAGE

They are particularly adapted to private use, where quality rather than quantity is desired. Grown in fall and allowed to be touched by frost, it is one of the most delicious of all vegetables.

Early Dwarf Ulm Savoy. One of the finest flavored sorts. Heads solid and with few outer leaves.

25c oz., 80c $\frac{1}{4}$ lb.....

American Drumhead Savoy. Heads large and very finely curled; short stalk and compact grower; an excellent keeper.

20c oz., 60c $\frac{1}{4}$ lb.

5c pkt.



Glory of Enkhuizen

RED CABBAGE

Early Red Erfurt. Extremely early and valuable for pickling.

25c oz., 80c $\frac{1}{4}$ lb.....

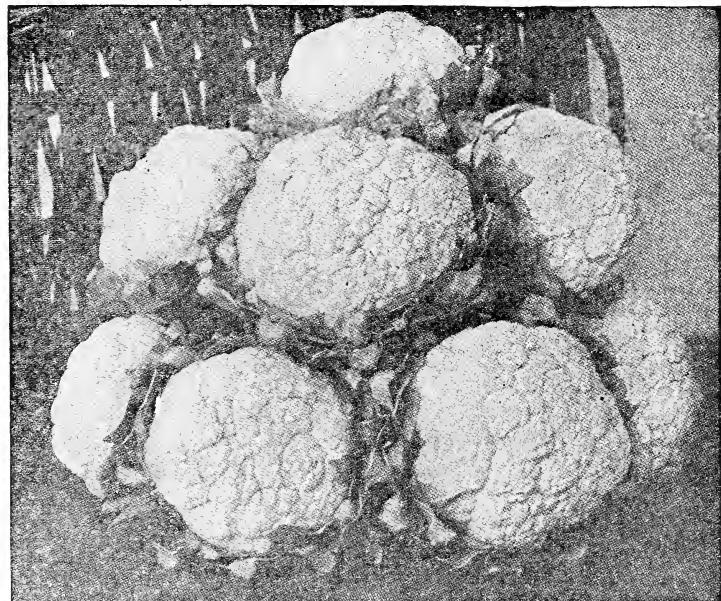
Late Giant Red Erfurt. A large heading, late variety, fine for pickling.

25c oz., 80c $\frac{1}{4}$ lb.....

Mammoth Rock Red. The largest and most solid of the red varieties; a sure heading sort and tender.

25c oz., 60c $\frac{1}{4}$ lb.....

5c pkt.



McCullough's Earliest Dwarf Erfurt Cauliflower

CAULIFLOWER

One Ounce of Seed for 2000 Plants.

Culture. For early use, sow in hotbeds in January and February. When plants are large enough, transplant three inches apart in boxes or other hotbeds until time to plant out. If hardened off they are seldom injured by planting out as early as the ground can be worked, 2 $\frac{1}{2}$ feet apart each way. When practicable, seed may be sown in rich soil from the middle of September to middle of October, and transplanted in frames, protect during severe weather and give light and air on mild days. The early varieties should be brought to maturity before summer heat sets in. The late sorts mature in the autumn and are cultivated same as winter Cabbages.

McCullough's Earliest Dwarf Erfurt is beyond question the best for all purposes. It heads where others fail. (See Page 5.) 25c pkt., \$1.25 $\frac{1}{4}$ ounce.

Special price to Market Gardeners.

Early Snowball (True).	An extremely early dwarf variety, producing magnificent white heads, of fine quality. Well adapted to hotbed culture.	90c $\frac{1}{4}$ oz., \$3.00 oz.....	20c pkt.
Early Paris.	Heads large, white, compact and solid; tender and delicious.	20c $\frac{1}{4}$ oz., 60c oz.....	5c pkt.
Lenormand's.	A large, late, short-stemmed variety, with well-formed white heads.	20c $\frac{1}{4}$ oz., 60c oz.....	5c pkt.
Danish Giant.	A large heavy sort, maturing soon after Dwarf Erfurt. It is without exception the best and surest heading of all for summer use.	90c $\frac{1}{4}$ oz.....	20c pkt.
Velitch's Autumn Giant.	One of the finest late varieties, of robust habit, heads large, compact and thoroughly protected by the leaves.	20c $\frac{1}{4}$ oz.....	5c pkt.

CARROT

Culture.—A light, sandy loam, well-tilled and manured the previous year, best suits the Carrot. For early crop, sow as early as the ground can be worked, in drills 10 inches apart, and thin, 5 inches in the rows. The Early Market, owing to its extreme earliness, is used for hotbed culture. The late sorts long and half-long varieties (main crop), sow from middle of May until first of July in drills 12 to 14 inches apart. Thin out to 6 and 7 inches in a row. Keep the hoe at work. Carrot seed is slow to germinate.

One Ounce Will Sow 100 Feet of Drill.

McCullough's Intermediate. (See Page 5.)

10c oz., 25c $\frac{1}{4}$ lb.....5c pkt.

Chantenay Half-Long Scarlet. (See Page 5.)

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Early Market. (See Page 5.)

15c oz., 50c $\frac{1}{4}$ lb.....5c pkt.

Guerande, or Oxheart. (See Page 5.)

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Danvers. A cylindrical-shaped Carrot of good size and stump-rooted, rich, dark orange color, grows to a large size, smooth and the flesh very close in texture, with little core.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Early Scarlet Horn. The favorite early red summer variety; fine grained and good flavor.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Improved Rubicon. A beautiful half-long Carrot. It grows about same length as the Danvers, but thicker and a rich, dark orange color. It is an enormous cropper and a splendid variety for the market gardener.

10c oz., 25c $\frac{1}{4}$ lb.....5c pkt.

Half-Long Scarlet Nantes. A stump-rooted variety, having little or no core. Flesh red of fine flavor.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Improved Long Orange. A standard late variety; deep orange color. It is of excellent table quality, and is highly nutritious for stock.

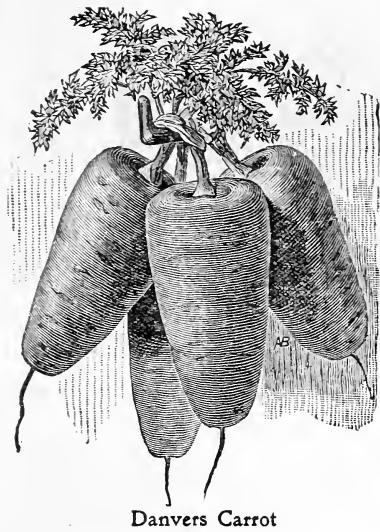
10c oz., 25c $\frac{1}{4}$ lb.....5c pkt.

Improved Giant Short White. The heaviest cropping Carrot grown. The flesh is white, solid, crisp and sweet, the roots are short and heavy at the shoulder, which allows them to be harvested easily. Grown for stock.

10c oz., 20c $\frac{1}{4}$ lb.....5c pkt.

Large White Belgian. The lower part of the root is white; that growing and exposed above ground, green. It is exclusively grown for stock.

10c oz., 20c $\frac{1}{4}$ lb.....5c pkt.



Danvers Carrot

CELERY

Sow in hotbeds in March or in open ground in April. See that no weeds infest the seed bed; when 3 inches high transplant in a bed outdoors in rows 3 inches apart each way, let them remain here until July, when they should be planted where they are to mature; in rows 3 feet apart, 6 inches apart in the row.

One Ounce Will Produce About 2,500 Plants.

McCullough's Paris Golden Yellow. The best Celery for early use. (See Page 6.) \$1.50 oz.....10c pkt.

Golden Self-Blanching. An early beautiful and desirable sort, requiring but little labor to blanch. The heart is a rich, golden yellow, with light, yellowish-green outer leaves.

30c oz., \$1.00 $\frac{1}{4}$ lb.....5c pkt.

White Plume. We offer a choice strain of this valuable and popular variety. The White Plume is unsurpassed for fall and early winter use, requiring very little earth-ing up to blanch it.

25c oz., 90c $\frac{1}{4}$ lb.....5c pkt.

Boston Market. A great favorite around Boston. The stalks, when blanched, are nearly white—solid, crisp and tender.

25c oz., 90c $\frac{1}{4}$ lb.....5c pkt.

Giant Pascal. A superior keeping sort. The stalks are very large, thick, solid, crisp, and of rich nutty flavor; it blanches very easily and quickly, and retains its freshness a long time.

20c oz., 60c $\frac{1}{4}$ lb.....5c pkt.

Giant White Solid. The best of the large growing sorts. This variety is suitable for Southern sections of the country, as it grows freely in a hot or dry atmosphere.

20c oz., 60c $\frac{1}{4}$ lb.....5c pkt.

Golden-Hearted Dwarf. A popular variety. Handsome color, medium size, fine flavor.

20c oz., 60c $\frac{1}{4}$ lb.....5c pkt.

Snow White. A pure white, self-blanching variety, vigorous growth, ease of blanching, size, richness of flavor, crispness and purity, makes it an ideal celery.

30c oz., \$1.00 $\frac{1}{4}$ lb.....5c pkt.

Triumph. The best late celery. A strong and vigorous grower, with very large but crisp, brittle, tender and fine flavored stalks.

20c oz., 60c $\frac{1}{4}$ lb.....5c pkt.

CELERIAC, TURNIP ROOTED CELERY.

Sow early in spring. Transplant in May into rich, mel-low soil in rows eighteen inches apart and six inches in the row.

Large Erfurt. When sliced, with vinegar and oil, makes a delicious salad.

15c oz.....5c pkt.

CHICORY.

Large Rooted. Used to mix with, or as a substitute for coffee. Cultivation the same as for Carrots.

10c oz.....5c pkt.

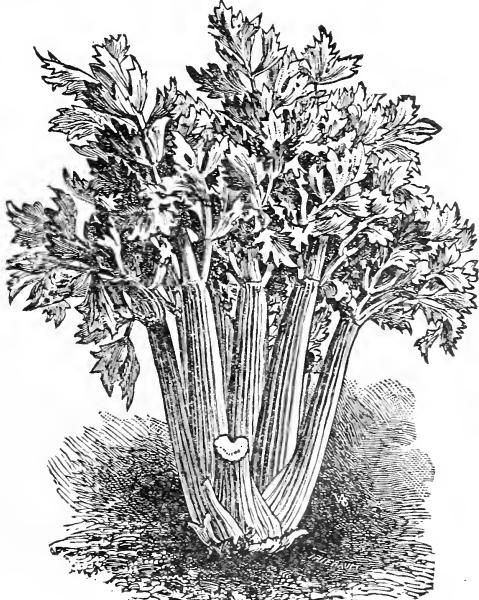
Witloof Chicory. Esteemed as a salad plant.

oz., 20c.....5c pkt.

COLLARDS. (Blatter Kohl, Ger.)

A species of Cabbage, very popular in the Southern States. Cultivate in the same manner as Cabbage.

Georgia Grown. 10c oz., 30c $\frac{1}{4}$ lb.....5c pkt.

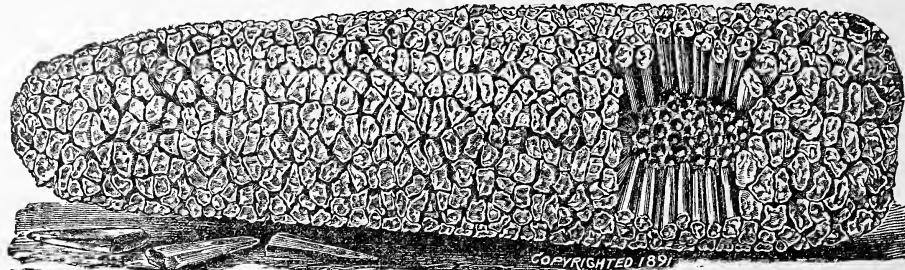


Giant Pascal Celery

Corn, Sweet or Sugar

The Sweet or Sugar varieties being liable to rot in cold or wet ground, should not be planted before May or until the ground has become warm, and for a succession continue planting every two weeks until the middle of July, in rich, well manured ground, in hills 3 feet apart each way, covering about half an inch, and then thin out 3 plants to a hill, or plant in rows 4 feet apart, and to stand 8 inches apart in the rows.

One quart will plant 200 hills—8 to 10 quarts per acre.



Country Gentleman Sugar Corn

POSTAGE—If wanted by mail add 5 cts. per pint; 10 cts. per quart; 15 cts. per 2 quarts for postage.

Adams' Extra Early. The hardest and earliest variety for table use, but not a Sugar Corn; can be planted earlier than any other corn.

Adams' Early. While not a Sugar Corn, is a tender white Corn for the table; can be planted earlier and will be ready in sixty days.

and will be ready in sixty days.	
10c pt., 20c qt.	5c pkt.
Premo. The best extra early variety. It can be planted early, as the young plants will withstand slight frosts. The stalks are strong and vigorous, growing about 5 feet in height, bearing one or two fine ears to a stalk. The ears are large for so early a variety.	5c pt.

Early Sheffield. Very early variety. (See Page 6.)

Golden Bantam. An extra early variety of vigorous growth and surpassing delicious flavor. (See Page 6.)

Kendal's Early Giant. Very early, fit for use 60 days from planting. Ears large, 8 to 10 inches in length, twelve rows to a cob. Kernels pure white, sweet and tender.

White, sweet and tender.	
15c pt., 25c qt.	5c pkt.
Mammoth White Cory.	An extra early sweet corn.
Ears, twelve-rowed; twice the size of the old Cory, white-cobbed and covered with large white grains of extra quality.	

15c pt., 25c qt.	5c pkt.
Early Minnesota. Very early, alike in the market or family garden. Ears of fair size and good quality. 15c pt., 25c qt.	5c pkt.

Crosby's Early. A great favorite; productive and of excellent quality. 15c pt., 25c qt....5c pkt.

Early Mammoth. A second early variety. The ears are of large size, tapering well toward the point; kernels large and very sweet.
15c pt., 25c qt..... 5c pkt.

Early Evergreen. An early strain of Evergreen Sweet Corn of great value. This variety resembles the Stowell's Evergreen, but is ready for use much earlier, and remains in good condition equally as long. The ears grow to a good size, usually about 7 inches long, and contain from 16 to 28 rows of deep, sweet grains.
 150 pt. 250 ct. 56 pmt.

Extra Curled or Peppergrass. Fine flavor, and the best sort for dry soils. 10c oz., 29c $\frac{1}{4}$ lb..... 5c pkt.

Erfurt Water Cress. A most desirable and appetizing salad, thriving best in shallow water, on the edges of streams. 35c oz. . . . 5c pkt



Corn Salad

Corn Salad, or Fetticus, (Ackersalat Ger.)

One ounce will sow 20 square feet. Six pounds for an acre.

Used as a salad Winter and Spring. Sow in Spring, in drills one foot apart; will mature in six to eight weeks. For Winter and early Spring use, sow in drills in August and September. Cover with straw on the approach of Winter, the same as Spinach.

Large Seeded. The most satisfactory to grow.
10c oz., 20c $\frac{1}{4}$ lb 5c pkt.

CUCUMBER.

One ounce will plant fifty hills; two pounds will plant one acre.

Culture.—For very early Cucumbers, sow April 1st, in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground, in rich soil, when danger of frost is over, or protect by hand-glasses. For early use, plant, if the weather has become settled and warm, in hills 4 to 6 feet apart each way; thin out to four of the strongest plants to each hill, after all danger from insects is over. They succeed best in a warm, moist, rich, loamy soil. Continue planting at intervals for a succession. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness. For pickles, plant from June until the middle of July. The yellow-striped cucumber or squash beetle is the most serious insect enemy of this crop. Bordeau Arsenate of Lead Mixture is by far the best remedy yet discovered. Dilute it with water, 3 ounces to the gallon, and spray it on the vines when in danger of the beetle or blight.

Special Price Given to Those Who Use Cucumber and Other Seeds in Quantity. Write for Estimate. ◆ ◆ ◆ ◆ ◆

McCullough's Special. An excellent Cucumber for both forcing and outdoor use. The fruits grow 11 to 15 inches long, slim, slightly pointed, a dark glossy green color, which they keep until ripe. In quality it is very tender, brittle and of fine flavor. A vigorous grower, notwithstanding blight better than other long sorts; oz. 15c; 1 lb. 40c; 1 lb., \$1.25.....5c pkt.

Ohio White Spine. This is the best strain of extra early white Spine for the market gardeners' out-door growing. It is hardy and an excellent shipper. It is extensively grown in the South for shipping North, early in the season. Fruit grows 7 to 10 inches long, of a deep green color, and full at both ends; oz. 10c; 1/4 lb. 30c; 1 lb., \$1.00.....5c pkt.

Davis Perfect. Splendidly adapted for growing either under glass or in the garden. In color, a dark, glossy green; shape, slim and symmetrical, with an average length of 10 to 12 inches. They are as early as the earliest strain of White Spine; oz. 15c; 1/4 lb., 40c; 1 lb., \$1.25; 5c pkt.

Early Boston Market. Largely used about Boston by market gardeners. Very productive; oz. 10c; 1/4 lb. 25c; 1 lb., 80c.....5c pkt.

Early Cluster. A much-esteemed early variety, growing in clusters; is extremely productive; oz. 10c; 1/4 lb., 25c; 1 lb., 80c.....5c pkt.

Early Frame. A good variety for pickling and table. Of medium size; oz. 10c; 1/4 lb., 25c; 1 lb., 80c.....5c pkt.

Evergreen. One of the best varieties for slicing, as it is crisp and of good quality; and as it produces fruit of medium size, it is good for pickling purposes; oz. 10c; 1/4 lb., 25c; 1 lb., 80c.....5c pkt.

Green Prolific. One of the best pickling varieties; dark green, tender, crisp, very productive; good for table use; oz. 10c; 1/4 lb., 25c; 1 lb., 80c.....5c pkt.

Improved White Spine. The favorite market variety, largely used for forcing and extensively grown South for shipping North early in the season. The fruit grows from 7 to 10 inches long, is quite smooth, of a deep green color, and full at both ends; oz. 10c; 1/4 lb., 25c; 1 lb., 80c.....5c pkt.

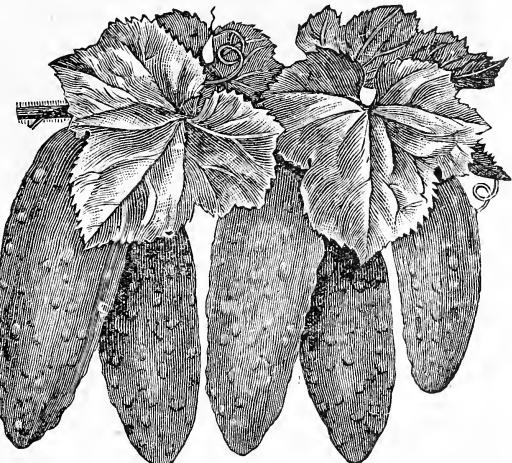
Jersey Pickle. As a pickling variety is unsurpassed. Its characteristics are its uniform growth and its immense productiveness; oz. 10c; 1/4 lb., 25c; 1 lb., 80c.....5c pkt.

London or Long Green. A standard late sort, crisp and tender, very prolific, excellent for the table, and makes a hard, brittle pickle; oz. 10c; 1/4 lb., 25c; 1 lb., 80c.....5c pkt.

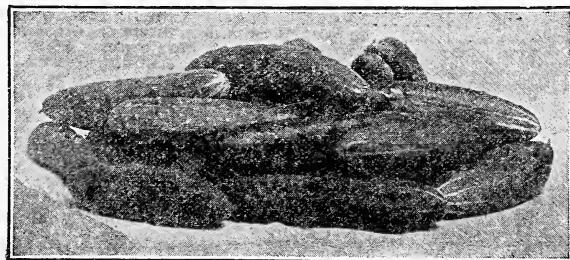
Nichols' Medium Green. One of the best for pickling, and excellent for forcing or slicing. Always straight and smooth. In length it is between White Spine and Long Green; oz. 10c; 1/4 lb., 25c; 1 lb., 80c.....5c pkt.

Japanese Climbing. It is suitable for growing either in frames or in the open air. It is very early and exceedingly productive. The fruit is excellent either for table or pickling; oz. 15c; 1/4 lb., 50c.....5c pkt.

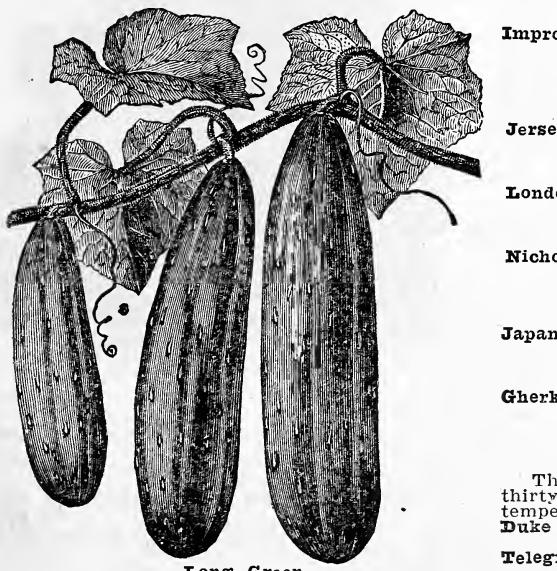
Gherkin. A very small, prickly variety, used exclusively for pickling, for which purpose they should be gathered while young and tender; oz. 25c; 1/4 lb., 75c; 5c pkt.



Jersey Pickle.



Davis Perfect.



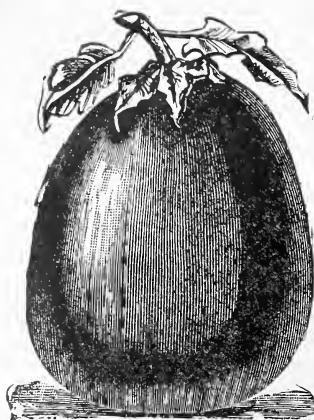
Long Green.

ENGLISH FORCING CUCUMBER.

The best for forcing, attaining a length of twenty to thirty inches. They can be grown in hotbeds, where the temperature does not fall below 65 degrees at night.

Duke of Edinburg. Very large and long, dull green, quite smooth; packet of 10 seeds, 25c.

Telegraph. Free bearing, long and extensively grown; packet of 10 seeds, 25c.



EGG PLANT. (Eierpflanze, Ger.)

One Ounce Will Produce About 1,000 Plants.

CULTURE.—The seed requires a strong heat to germinate. Sow in a hotbed early in spring, when the plants are 2 inches high transplant. Plant out when the weather becomes settled and warm. Give them a deep, rich soil; full exposure to the sun. When they germinate they are sensitive to damp and being chilled, consequently the amateur often fails to raise them.

Black Beauty. This beautiful Egg Plant is 10 days earlier than New York Improved. The fruits are broad and thick, of most attractive form, as shown in the illustration. The skin is a rich, lustrous, purplish black. This intensely brilliant coloring is uniform over the whole fruit and does not fade or change to a lighter color at the blossom end. The calyx, which attaches the fruit to the stem, is bright green, contrasting finely with the dark satin skin of the fruit, which is entirely free from spines or thorns. The fruits set most freely and are ready for market early, so that the entire crop can be gathered before there is any danger of frost. Our strain of seed is of superior quality, as we produced fruits this season that eclipsed all other varieties. 40c oz.; \$1.25 $\frac{1}{4}$ lb. 5c pkt.

New York Improved. A leading market variety. 40c oz.; \$1.25 $\frac{1}{4}$ lb. 5c pkt. We will have a supply of strong potted plants from the middle of May to the first of July. See Vegetable Plants.

ENDIVE. (Endivien, Ger.)

One Ounce of Seed to 150 Feet of Row.

Sow in shallow drills in April for early use, or for late use in June or July. When 2 or 3 inches high, transplant into good ground, or thin out to one foot apart. When nearly full grown, they must be blanched. This is done by gathering the leaves together, and tying with yarn or bass, to exclude the light and air from the inner leaves, which must be done when quite dry, or they will rot.

Broad-Leaved Batavian. Leaves broad, light green, nearly plain, used in stews and soups. Oz. 15c; $\frac{1}{4}$ lb. 50c. 5c pkt.

Green Curled. Very hardy, crisp and tender. Oz. 15c; $\frac{1}{4}$ lb. 50c. 5c pkt.

Moss Curled. It is excellent for winter use. Oz. 15c; $\frac{1}{4}$ lb. 50c. 5c pkt.

White Curled. Coarser than Green Curled, but the mid-rib is yellow and the leaves frequently almost white. Oz. 15c; $\frac{1}{4}$ lb. 50c. 5c pkt.

French Endive (Witloof Chicory). See Chicory.

HERB SEEDS.

CULTURE.—Sow early in April or May, in a sheltered, well-prepared spot in the open ground, either broadcast or in shallow drills about 7 inches apart. Thin out the plants thus raised, and keep clear from weeds.

Anise. Biennial. 10c oz. 5c pkt.

Balm. Sweet. Perennial, 1 foot. 30c oz. 5c pkt.

Basil. Sweet. Annual, 1 foot. 20c oz. 5c pkt.

Caraway. Perennial, 2 feet. 10c oz. 5c pkt.

Dill. Biennial, 3 feet. 10c oz. 5c pkt.

Fennel. Sweet. Perennial, 6 feet. 10c oz. 5c pkt.

Horsehound. Perennial, 2 feet. 25c oz. 5c pkt.

Hysop. Perennial, 3 feet. 25c oz. 5c pkt.

Lavender. Perennial, 2 feet. 20c oz. 5c pkt.

Rosemary. Perennial, 4 feet. 30c oz. 5c pkt.

Saffron. Annual, 3 feet. 10c oz. 5c pkt.

Sage. Annual, 1 foot. 15c oz.; 50c $\frac{1}{4}$ lb. 5c pkt.

Summer Savory. Annual. 20c oz. 5c pkt.

Sweet Marjoram. 20c oz. 5c pkt.

Thyme. Annual, 1 foot. 30c oz. 5c pkt.

KOHL-RABI. (Turnip Rooted Cabbage.)

One Ounce of Seed for 1,500 Plants.

For an early crop, start in a hotbed and treat the same as Early Cabbage. For winter use, sow the middle of June.

Early White Vienna. The flesh is white and tender. 20c oz.; 50c $\frac{1}{4}$ lb. 5c pkt.

Early Purple Vienna. Differs from the above in color. 20c oz.; 50c $\frac{1}{4}$ lb. 5c pkt.

KALE, OR BORECOLE. (Blaetter-Kohl, Ger.) One Ounce to 100 Yards of Drill.

The Kales are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. Sow from May to June, and cultivate the same as Cabbage. For early spring use, sow in September, and protect during the winter.

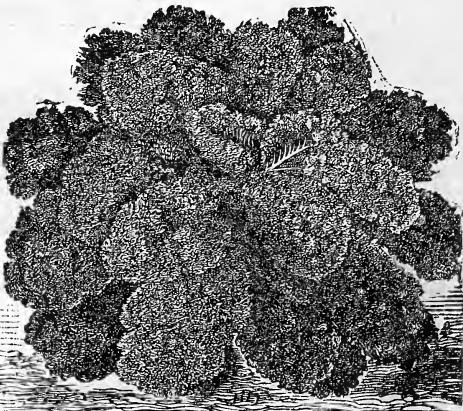
Special Price Given to Those Who Use Kale and Other Seed in Quantity. Write for Estimate.

Norwood Dwarf Curled. A beautiful curled and crimped sort, of strong, vigorous habit, attractive appearance and a bright green color. It is superior to all other sorts, and is, undoubtedly, the best for private gardens. It rarely exceeds 12 inches in height, but spreading out under good cultivation to 2 feet in diameter. 10c oz.; 25c $\frac{1}{4}$ lb. 85c lb. 5c pkt.

Dwarf Curled German or Siberian. Leaves yellowish-green, finely curled. Sow in September for early winter and spring use. 10c oz.; 20c $\frac{1}{4}$ lb.; 40c lb. 5c pkt.

Market Gardener's Special. A beautifully curled and crimped variety, of strong, vigorous habit, perfectly hardy, bright green color and very attractive in appearance. 10c oz.; 25c $\frac{1}{4}$ lb.; 65c lb. 5c pkt.

Tall Scotch. Leaves green, beautifully curled and wrinkled; grows about 2 feet in height; hardy, being improved by frost. 10c oz.; 25c $\frac{1}{4}$ lb.; 85c lb. 5c pkt.



Norwood Kale.

LEEK. (Lauch, Ger.)

Sow early in April, in drills one foot apart, one inch deep. When the plants are six to eight inches high, transplant in a deep, rich soil in rows twelve inches apart and six inches in the rows, as deep as possible, so that the neck may be covered and blanched. Draw the earth to them as they grow. The seed may also be sown in September, and the young plants transplanted in the spring.

Large American Flag. This is by far the best variety. It grows to a good size and is wonderfully uniform. 20c oz.; 50c $\frac{1}{4}$ lb. 5c pkt.

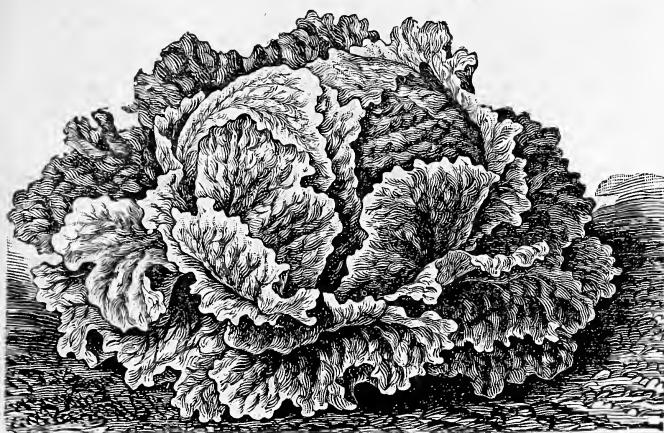
London Flag. An old and popular sort; one of the hardest; best for winter use. 15c oz.; 40c $\frac{1}{4}$ lb. 5c pkt.

Large Musselburgh. Of enormous size; leaves large and broad; very mild; pleasant flavor. 20c oz.; 60c $\frac{1}{4}$ lb. 5c pkt.

LETTUCE

CULTURE.—Sow the seed in hotbeds or flats during February or early March, prick the young seedlings out in flats or cold frame 4 inches apart each way, and as soon as a nice, rich, warm spot can be prepared in open ground in spring, transplant the well hardened plants in rows a foot apart, allowing 8 to 12 inches space between the plants in the row. For succession sow seed thinly in open ground, and thin the plants to 5 or more inches apart. Sow for succession every few weeks until the fall.

One Ounce Will Produce About 3000 Plants.



McCullough's Nonpareil Lettuce

Hanson. Heads green, with white heart. Large size; crisp, tender. **15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.**

Boston Market. This is an improved variety of the Tennis Ball, and attains a large size. It grows very compact, is white and crisp. **15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.**

Tennis Ball, Black Seeded. A favorite forcing variety, forming a large head. It makes but few outer leaves. **15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.**

Tennis Ball, White Seeded. Extensively grown for forcing under glass; good size, firm heads, and very white and crisp. **15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.**

Yellow-Seeded Butter. A distinct sort, making a compact yellow head, of excellent flavor, withstands heat well and remains crisp and tender. **15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.**

To Insure Good Results Buy Your Seeds at the

ORIGINAL McCULLOUGH'S STORE

316 WALNUT STREET

(Just below Fourth St.)

Our only Retail Store

Head Varieties

McCullough's Selected Nonpareil.

The finest market variety. Its beautiful yellowish-green color, crimped, curled and well formed heads, tender quality and sweet flavor, place it at the head of the list for the market gardener or for family use. (See Page 7.)

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Big Boston. Resembles the popular Boston Market, but is nearly twice as large; desirable for forcing in frames and for spring and fall outdoor planting.

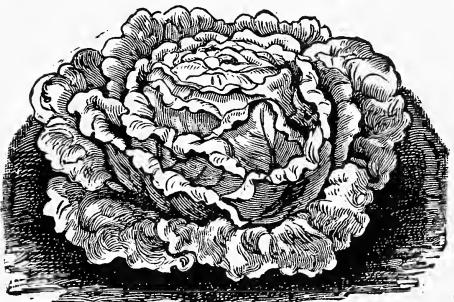
15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Denver Market. This Lettuce is highly recommended either for forcing or open ground; forms large, solid heads of a light green color; is slow to seed. The leaves are curled and crimped; very crisp and tender.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

May King. A very early and extra fine variety for spring and fall use in the open garden. (See Page 7.)

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.



Hanson Lettuce

Curled Varieties

Grand Rapids. (See Page 7.)

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Bon-Ton. The plants stand a long time, even in hot weather, before going to seed. For the home garden and market gardener, who raise Lettuce under glass for the winter market, the Bon-Ton is extremely valuable by reason of its quick growth and large size.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Black Seeded Simpson. One of the most popular sorts. It forms large, loose leaves of ideal color; the leaves are large, thin, very tender and of very good quality. It is one of the best sorts for use under glass as well as for early outdoor planting.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Early Curled Simpson. Does not head, but forms a close, compact mass of leaves; very early, excellent for forcing.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Early Curled Silesian. Early, loose heads, curled, tender and fine flavor.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Prize Head. Produces large, loose heads, finely crimped and fringed leaves, outer portions shaded brown; crisp, sweet and tender. **15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.**

Oak Leaved. Very distinct, excellent for summer use and for growing in the South. **15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.**

Romaine, Cos, or Celery Lettuce

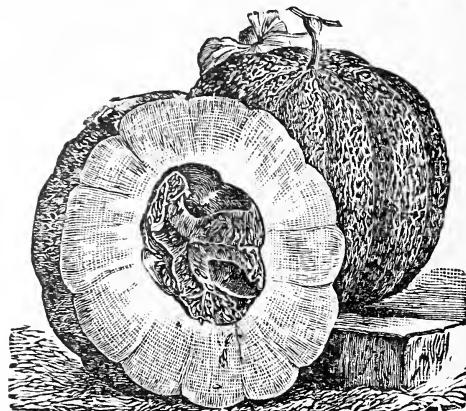
These are distinct from the ordinary Lettuce, and much liked on account of their crisp, tender quality and delicate flavor. They produce long, narrow leaves, which are blanched by drawing in the outer leaves and tying.

Paris White Cos. One of the best varieties for blanching; very tender. **15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.**

Trianon Self-Folding. A self-blanching Cos Lettuce, very crisp and tender, and of excellent flavor. If the leaves are tied up the plant soon forms a solid head and bleaches to a pure white.

15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

MUSKMELONS



Extra Early Hackensack

Extra Early Hackensack. A careful selection from Hackensack. Produces melons two weeks earlier than the well-known Hackensack; heavily netted, and has light green flesh of most delicious flavor; a splendid Cantaloupe melon. Its shape and solidity admit of its being packed very closely in crates for shipment, and it will keep in good condition for several days after picking. **10c oz., 30c $\frac{1}{4}$ lb. 5c pkt.**

Hackensack. Melons grow to large size and attractive appearance. Flesh green, very sweet and sugary. Outer skin is heavily netted. **10c oz., 30c $\frac{1}{4}$ lb. 5c pkt.**

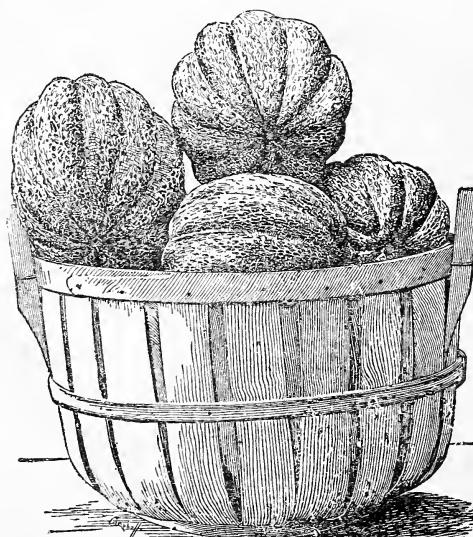
Paul Rose. Cross between the old Netted Gem and Miller's Cream and combines the good qualities of both. The fruit grows uniform. It is a heavy cropper, the vines are healthy and robust. The flesh is salmon colored, very deep and of fine melting character, with thin tough rind and small seed cavity. The flavor is excellent, sweet and rich. **10c oz., 30c $\frac{1}{4}$ lb. 5c pkt.**

Emerald Gem. Ripens early; medium size; nearly round; flesh a delicate light salmon color, very thick, fine grained, and very few melons can compare with it in superb flavor. The rind is thin, dark green, ribbed, slightly netted. **15c oz., 40c $\frac{1}{4}$ lb. 5c pkt.**

Jenny Lind. The earliest variety; netted, of small, round size; excellent flavor. The vines do not grow as large as some of the other varieties, but are quite productive, and it is a favorite early variety. **10c oz., 35c $\frac{1}{4}$ lb. 5c pkt.**

Improved Green Nutmeg. A large melon, nearly round, deeply ribbed, flesh thick, light green, delicious flavor. **10c oz., 30c $\frac{1}{4}$ lb. 5c pkt.**

Acme. Medium size, oval, slightly pointed at end, ribbed, covered when ripe with coarse netting. Flesh thick, green, very fine flavored and sweet. **10c oz., 30c $\frac{1}{4}$ lb. 5c pkt.**



Paul Rose Muskmelon

One Ounce Will Plant About 50 Hills; 2 to 3 Pounds in Hills per Acre.

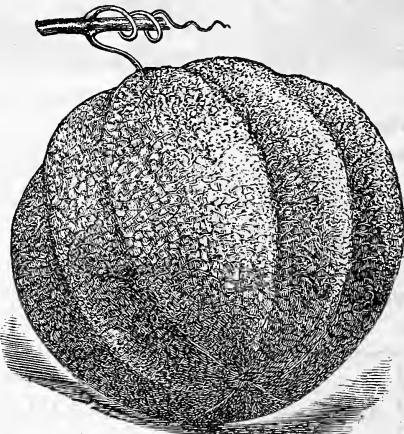
Culture.—In selecting a patch for melons, be careful to have it at a safe distance from your Squashes, Cucumbers, Pumpkins, etc., or they will certainly mix. In preparing the hills fork in plenty of manure and about the middle of May, when the ground is warm, plant in each hill eight or ten seeds, and cover half an inch deep. After the danger from bugs is over, pull all but three or four of the strongest plants. As soon as the vines have run sufficiently and spread their branches, stop them by pinching the top off the first running bud. This will strengthen the plants and promote their perfecting fruit early. The ground should be kept free from weeds and frequently cultivated.

A Special Price will be mailed upon application to those who use Melon Seed in quantity.

Delicious Gold Lined. A new melon of the Rocky Ford type. (See Page 8.) **15c $\frac{1}{2}$ oz., 25c oz., 85c $\frac{1}{4}$ lb. 10c pkt.**

Bush Melon. New. (See Page 8.) **15c $\frac{1}{2}$ oz., 25c oz., 85c $\frac{1}{4}$ lb. 10c pkt.**

Rocky Ford. A variety extensively grown in Colorado. (See Page 7.) **10c oz., 25c $\frac{1}{4}$ lb. 5c pkt.**



Improved Green Nutmeg

Burrell Gem. A superior new orange-fleshed shipping melon. Of splendid flavor, sweet and aromatic; oblong in shape, smoothly rounded ends, closely netted and slightly ribbed, dark green skin. Rind thin, but very tough; flesh exceptionally deep rich salmon-orange color. Fruits average 6 inches long by 4 inches deep. Very fine for marketing. **10c oz., 30c $\frac{1}{4}$ lb., 5c pkt.**

Tip-Top. A yellow-fleshed melon of handsome appearance and excellent quality. A medium sized Muskmelon, nearly round in shape, with shallow netting on skin. The flesh is deep yellow and has a rich flavor. It is a productive variety, suitable for growing in all sections. **15c oz., 40c $\frac{1}{4}$ lb. 5c pkt.**

Osage, or Miller's Cream. A favorite salmon-fleshed variety. Large, oval, slightly ribbed and netted; skin is very dark green. Flesh is very thick and sweet flavored, most delicious to the rind. The whole crop is very even and fruit extra heavy, owing to this thickness of the flesh. A great favorite for both market purposes, and the home garden. **15c oz., 40c $\frac{1}{4}$ lb. 5c pkt.**

Defender. Medium size, salmon flesh, and delicious flavor; oval shape, slightly ribbed and covered with a slight netting. **oz., 15c; $\frac{1}{4}$ lb., 40c; 5c pkt.**

To insure Good Results Buy Your Seeds at the
Original McCullough's Store

316 Walnut Street
Just Below Fourth St. Our Only Retail Store

WATERMELONS.

One Ounce for Thirty Hills; Four to Five Pounds for an Acre.

CULTURE.—See directions given under Muskmelons. Watermelons, however, are slightly less subject to "bus" depredations and disease attacks than Muskmelons. At the same time they are more easily hurt by strong spray mixtures, and caution in the use of such mixtures is advisable.

Special Price Given to Those Who Use Melon Seed in Quantity. Write for Estimate.

Tom Watson. A very popular, new Melon, early, fruit uniform in size, oblong in form. The skin is rich, dark green; flesh bright red, very sweet and tender; the seeds lie close to the rind, leaving a very large, solid, red core. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Wonderful. Handsome appearance and fine quality. The fruits are oblong in form, averaging 20 inches in length; the skin is beautifully marked with broad striping of light green on a dark ground. The flesh is of a pale pink color, very crisp and sweet. The fruits bear shipping well. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Black Diamond. Skin dark green, almost black. Flesh bright red; shape rather oval; large, productive and fine quality. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

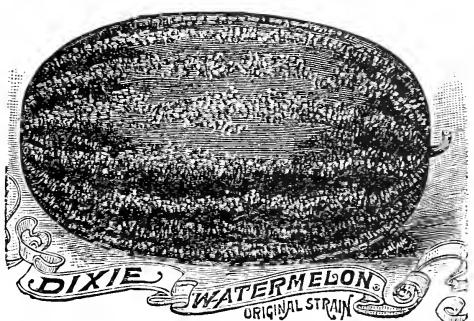
Black Spanish. Fruit medium size, almost round; skin dark green; flesh red, sweet and delicious. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Blue Gem, or Iceberg. Grows large. Flesh a beautiful shade of pink, darker than Kolb's Gem, heart large and flesh extends close to the outer skin, sweet and delicious. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Boss. Color dark green; flesh deep scarlet; rind hard but thin; quality the best. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Cuban Queen. Flesh bright red, tender and melting, luscious, crisp, very sugary. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Dark Icing, or Ice Rind. A very solid sort with a thin rind, and possesses most delicious flavor. 10c oz.; 25c $\frac{1}{4}$ lb. 5c pkt.



Kolb Gem. Probably the most extensively grown for long distance shipping of any Watermelon ever originated. The flesh is bright red and of good flavor. Melons large, of very thick, oval, blocky form; skin handsomely marked in stripes of light and dark green. One of the most productive and best keeping melons. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Dixie. A cross between the Kolb Gem and old-fashioned Mountain Sweet, surpassing the former in earliness, productiveness and shipping qualities. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Sweetheart. Vine vigorous and productive; flesh bright red, solid and very tender, and sweet. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Halbert Honey. A very sweet, long, dark green variety. Fruits average 18 to 20 inches long, have a thin rind and deep red meat of delightfully delicious flavor; pulp entirely free from stringiness; seeds white. One of the finest for the home garden. 10c oz.; 25c $\frac{1}{4}$ lb. 5c pkt.

Duke Jones. The color of the skin is solid green, flesh bright red, sweet, juicy and melting. It grows to a large size. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Florida Favorite. Oblong in shape, growing to large size; rind dark, with light green stripes; flesh light crimson, crisp and deliciously sweet. 10c oz.; 25c $\frac{1}{4}$ lb. 5c pkt.

Hoosier King. A large variety, oblong shape, with skin striped light and dark green. Flesh brilliant red, solid, sweet and luscious; the rind is thin but tough. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Gray Monarch. Large size; the skin is a mottled gray; shape long; flesh bright crimson and of sweet, delicious flavor. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Kentucky Wonder. Shape oblong, attaining a good size; skin dark green and beautifully marked. Flesh a beautiful rich scarlet color, crisp, rich, sugary, always firm and solid. 10c oz.; 25c $\frac{1}{4}$ lb. 5c pkt.

Kleckley's Sweet. Where sweeteness combined with large size is desired this variety will surely please; it has that crisp, sugary flavor so much desired. It is the sweetest of all. Oval shape. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

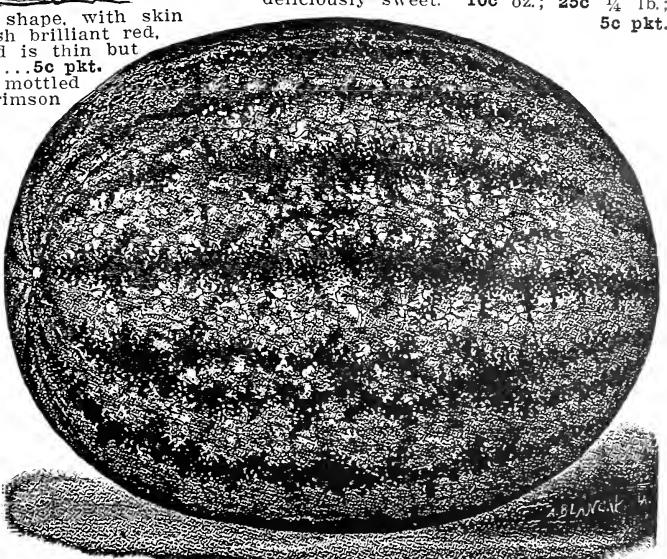
Long White Icing. The skin a mottled gray color, shape long, flesh bright crimson and of sweet, delicious flavor. 10c oz.; 25c $\frac{1}{4}$ lb. 5c pkt.

Peerless, or Ice Cream. Of medium size; skin light mottled green; flesh scarlet. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Pride of Georgia. Dark green color, almost oval in shape. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

Battlesnake, or Gypsy. Fruit large, oblong, striped; flesh red. 10c oz.; 20c $\frac{1}{4}$ lb. 5c pkt.

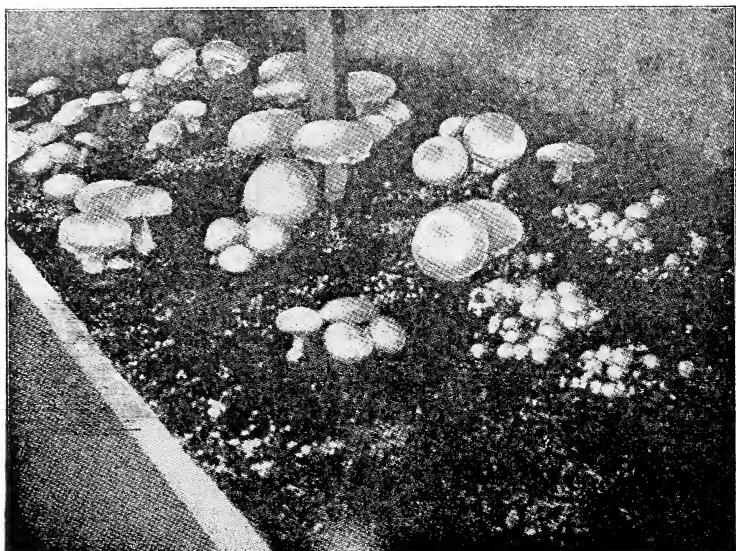
Colorado Preserving Citron. Flesh white and very firm. 10c oz.; 25c $\frac{1}{4}$ lb. 5c pkt.



Kolb Gem.

MUSHROOM SPAWN

To cultivate mushrooms successfully does not always require extensive experience. Some care is necessary, however, in the selection of materials, and in forming the beds; but the matter of securing and maintaining the proper temperature in the room and in the beds needs close attention, for success depends very much upon this point. Mushrooms may be grown in a great variety of situations—a dark room, cellar, stable or elsewhere. Any place in which an even temperature of about 50 to 60 degrees can be kept is suitable. For material for the bed, use fresh horse manure free from straw or chips, and good loamy soil. Some growers use the manure mixed with loam, after first having well fermented it by alternately piling it and mixing for a few weeks, but it is undoubtedly better not to allow the manure to heat much before forming a bed. Use one-fourth to one-third loam the rest manure. Mix very thoroughly and upon a dry firm bottom make the bed of this mixture, about four feet wide and of any desired length. Build it up evenly, press it down firmly, and leave it about a foot high. It will shortly begin to heat. Use a thermometer to thrust into the bed and note the temperature. When the heat has partially subsided, leaving a temperature of 80 degrees put in the spawn. Pieces from the size of walnuts to that of eggs are placed in the bed about a foot apart, deep enough to cover them well, and the manure pressed down. Let it remain thus ten or twelve days, then cover with two inches of fresh loam, and make this moderately firm. The bed is finished by covering all with four or five inches of straw or other litter. Watering is not necessary, unless the surface of the bed gets very dry; in this event moisten freely with water at a temperature of about 90 degrees. In gathering the crop, do not cut, but twist them off carefully, filling up the holes carefully with loam to keep insects from the roots. In six or eight weeks from spawning the beds, mushrooms should appear.



freely with water at a temperature of about 90 degrees. In gathering the crop, do not cut, but twist them off carefully, filling up the holes carefully with loam to keep insects from the roots. In six or eight weeks from spawning the beds, mushrooms should appear.

One pound of spawn is sufficient for a bed 2 x 6 feet. Postage must be added if wanted by mail.

ENGLISH MILLTRACK MUSHROOM SPAWN.

Our celebrated English Milltrack brand (made by the best maker in England specially for our trade) has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied upon to produce a good crop of the best Mushrooms. Commercially it is more planted than any other spawn. It comes in pressed bricks weighing about 20 ounces. They are broken into pieces the size of a walnut and put sideways in the beds 10 to 12 inches apart each way. Price, by express—customer to pay charges—20c per brick; 15c per lb.; \$1.00 for 10 lbs.; \$9.00 for 100 lbs. By mail, 25c per brick; postpaid.

Mushroom Culture.—(Wm. Falconer.) The most practical work on the subject, \$1.00.

Treatise on Mushroom Culture.—10c, or given with an order of 10 lbs. Mushroom Spawn.

NOTE.—Special prices will be given to those who use Mushroom Spawn in quantity.

Martynia—For Pickles

The young and tender seed pods make a very fancy pickle. These pods are of curious shapes and bear abundantly. They should be gathered when less than half grown. Sow in the open ground in May, in hills 3 feet apart each way.

Martynia Proboscidea. 30c oz.....5c pkt.

Mustard

The leaves make a salad or may be boiled like Spinach.

White English. Best for salads. 10c oz., 15c $\frac{1}{4}$ lb.....5c pkt.

Chinese or Giant Southern Curled. The large leaves which often measure 14 inches, are ready for use in about six weeks after sowing. Leaves are eaten boiled, like Spinach. 10c oz., 20c $\frac{1}{4}$ lb.....5c pkt.

Okra, or Gumbo

Culture.—This vegetable is extensively grown for its green pods, which are used in soups, stews, etc., to which they impart a rich flavor, and are considered nutritious. Sow the seed thickly in rich ground, about the middle of May, or when the ground has become warm, in drills 3 feet apart, 1 inch deep; thin to 12 inches apart in drills. Culture otherwise much like corn.

Perkins Mammoth. An exceedingly handsome variety of Okra, which is a great improvement upon other varieties heretofore grown. The pods grow 4 or 5 inches in length and are very tender, long, slim and of a beautiful deep green color. The habit of growth of plant is dwarf, and it is very productive. 10c oz., 25c $\frac{1}{4}$ lb.....5c pkt.

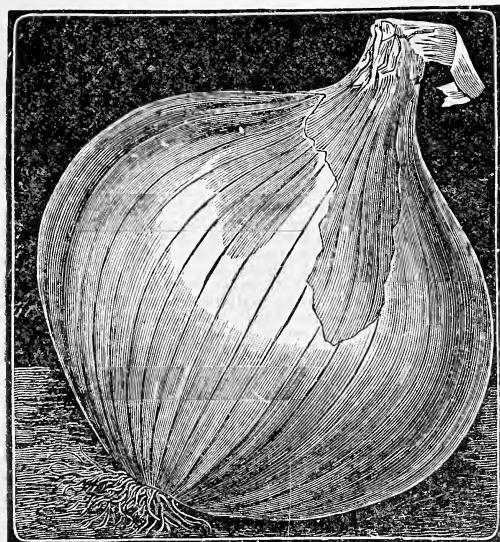
Dwarf Green. The best of the dwarf sorts. It makes a stocky growth of plant and is very productive. The pods are long, slender and of a light green color. 10c oz., 25c $\frac{1}{4}$ lb.....5c pkt.

Long Green. Taller than the preceding, bearing long, ridged pods. Highly esteemed in the South. 10c oz., 25c $\frac{1}{4}$ lb.....5c pkt.

White Velvet. Distinct in appearance; the large pods are perfectly round, smooth, an attractive velvety white, of superior flavor and tenderness. Plant dwarf, of compact, branching growth; very prolific. 10c oz., 25c $\frac{1}{4}$ lb.....5c pkt.



Okra or Gumbo



Prize Taker Onion

Yellow Dutch, or Strasburg. A good keeper and well flavored; bright straw-colored skin and somewhat flattened shape. The Onions grow to a good size and are very mild. This variety is largely grown for sets on account of its excellent keeping qualities.

Large Red Wethersfield. Grows to full size the first season from seed. The Onions are large, flat in shape, with skin of a purplish-red color and flesh of a purplish-white color, rather strong-flavored, an excellent keeper.

White Queen. A rapid-growing variety of mild flavor; pure white, and splendid for pickling.

White Barletta. An extra early small, white Onion; similar to White Queen.

Mammoth Silver King. A large, flat variety. Specimens have been grown to weigh as high as 4 pounds. Skin pure white and flesh tender.

White Portugal, or Silver Skin. This variety is one of the leading white sorts. The bulbs are flat in shape and mature early. Largely used for growing sets.

20c oz., 60c $\frac{1}{4}$ lb. 5c pkt.

15c oz., 50c $\frac{1}{4}$ lb. 5c pkt.

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ONION SEED

CULTURE.—For sets, drill the seed thickly as early as possible in the spring. As soon as the tops dry off in the summer, remove to a dry airy place. May also be grown to full size the first season by sowing thinly in drills one foot apart and one-quarter inch deep, in March or early April, thinning to three or four inches apart. By sowing in frames in February or March and transplanting in April, onions of immense size can be obtained. For this purpose the Southport Globe varieties (white and yellow) and Prize Taker are usually preferred. Onions delight in a strong, rich, deep loamy soil, and succeed well if grown successive years on the same ground.

One Ounce for 150 Feet of Drill. Five to Six Pounds for One Acre. Onion Seed for Sets, 30 to 40 Pounds per Acre.

Yellow Globe Danvers. A standard sort and one of the most desirable. (See Page 8.) **15c oz., 50c $\frac{1}{4}$ lb. 5c pkt.**

Prize Taker. Large Onions are raised first year from seed. (See Page 8.) **20c oz., 60c $\frac{1}{4}$ lb. 5c pkt.**

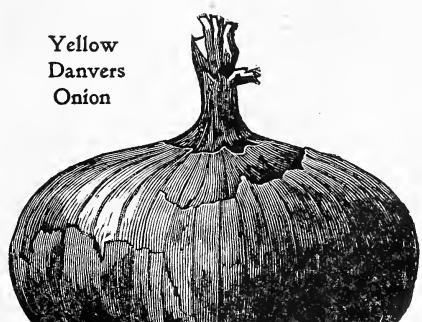
Yellow Danvers. Bulb of good size and flat, the standard yellow onion for market or home use, being both early and an enormous yielder as well as good keeper. **15c oz., 40c $\frac{1}{4}$ lb. 5c pkt.**

Southport Yellow Globe. A very large, handsome, globular-shaped yellow variety, very productive, of mild flavor. The outer skin is a beautiful pale yellow; the bulbs are of a beautiful globe shape and good keepers. **20c oz., 60c $\frac{1}{4}$ lb. 5c pkt.**

Southport White Globe. Pure white color, mild flavor. A good keeper and very productive. It is best to dry these Onions in a shady place, where they will get plenty of air. **25c oz., 75c $\frac{1}{4}$ lb. 5c pkt.**

Southport Red Globe. Beautiful globe shape; of medium size and a good keeper and of superior quality. This variety is very popular in some sections. **20c oz., 60c $\frac{1}{4}$ lb. 5c pkt.**

Yellow
Danvers
Onion



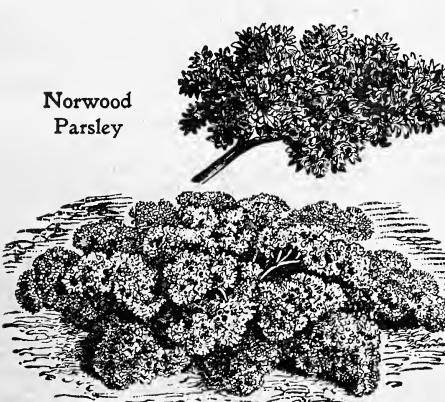
Onion Sets

Prices Subject to Market Changes.

Onion Sets should be planted out as early in the spring as the ground is dry enough to work; plant them in rows 12 inches apart, with sets 2 inches apart in the row.

Onion Sets, 25c per quart by mail postpaid.

When larger quantities are wanted write for prices.



Norwood
Parsley

PARSLEY, (Petersilie Ger.)

One Ounce to 150 Feet of Drill.

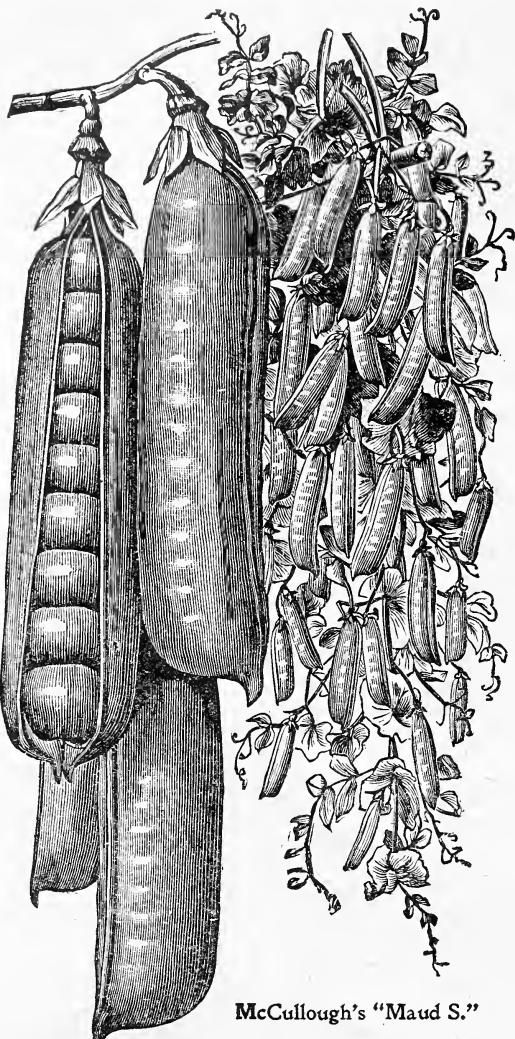
CULTURE.—Sow thickly early in April, in rows one foot apart and one-half inch deep; thin out the plants to stand six inches apart in the rows. The seed is of slow germination, taking from three to four weeks to make its appearance, and often failing to come up in dry weather. To assist its coming up quicker, soak the seed a few hours in warm water or sprout in damp earth, and sow when it swells or bursts. For winter use protect in frame or light cellar.

Norwood. Fine curled leaves of rich dark green, compact growth, finest quality. **15c oz., 40c $\frac{1}{4}$ lb. 5c pkt.**

Extra Double Curled. Beautifully crimped and curled. **10c oz., 20c $\frac{1}{4}$ lb. 5c pkt.**

Moss Curled. Fine for garnishing. **10c oz., 20c $\frac{1}{4}$ lb. 5c pkt.**

Hamburg Turnip Rooted. The fleshy root resembles a parsnip and is used for flavoring soup, stews, etc. **10c oz., 25c $\frac{1}{4}$ lb. 5c pkt.**



McCullough's "Maud S."

Thomas Laxton. A cross between Gradus and one of the extra early sorts. It ripens within a day or two of the earliest round varieties, and is extremely productive. The pods are very large and contain 7 or 8 large-sized wrinkled peas of the finest flavor. It is darker colored than the Gradus and harder in constitution; height, three feet.

15c pt., 25c qt., 90c 4 qts., \$1.65 pk... 5c pkt.

Prolific Early Market. The longest podded, more peas in pod, and larger number of pods to the vine than any other extra early. It blooms two days later than Maud S., and in the development of pods suitable for picking about three or four days later; it will yield 30 to 50 per cent more than any other strain of Extra Earlies. A desirable Pea for the market gardeners, as their larger size and the fine quality will make them a general favorite.

15c pt., 25c qt., \$1.75 pk... 5c pkt.

Alaska. A wonderful early, smooth, blue Pea; vines slender; pods very dark green, about three inches long, well filled with small, smooth, blue-green peas. The earliness, uniformity in ripening and deep color render it a desirable market and canning pea; height, 2 feet.

15c pt., 25c qt., 75c 4 qts... 5c pkt.

Ameer (Cladit.). An early dwarf Pea; is exceedingly productive. We recommend it to those who have been using Alaska. The seed resembles this variety, but is larger and more reliable.

15c pt., 25c qt., 90c 4 qts... 5c pkt.

Special Price Given to Those Who Use Peas and Other Seed in Quantity. Write for Estimate.

Garden Peas

One Quart Will Plant About 100 Feet of Drill. One and One-Half to Two Bushels for an Acre.

Culture.—Peas succeed best in light, dry, loamy soil. Early and Dwarf sorts require richer soil than the late varieties. If manure is used, let it be old and well rotted, or there will be a rank growth of vines with few pods. Sow the early, smooth, round sorts as early in spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. From the first sowing, sow every two weeks until June for a succession. After that there is danger of mildew. Discontinue then until August, when a planting of extra early or early sorts will often produce a good crop. Sow the seed in single drills, three feet apart for dwarf sorts and four for tall sorts, or in double drills six or eight inches apart, one inch apart in the drill, and not less than four inches deep, since deep planting prevents mildew and prolongs the season. Cultivate well, and draw the earth twice to the vines during growth. Stake the tall varieties when they begin to vine. Pick the pods as soon as fit, and allow none to ripen on the vines, as they will then cease bearing. All kinds of Peas do best when supported with brush or wire.

Postage Must be Added to Price of Peas if Wanted by Mail—5c pt., 10c qt., 15c 2 qts.

Early Varieties

Maud S. The earliest and most prolific Pea known. (See Page 9.)

15c pt., 25c qt., 80c 4 qts., \$1.50 pk... 5c pkt.

McCullough's "Ohio Chief." This new Pea is of the extra early type. (See Page 9.)

20c pt., 35c qt... 5c pkt.

Little Marvel. (See Page 9.)

20c pt., 30c qt... 5c pkt.

Laxtonian. (See Page 9.)

20c pt., 30c qt... 5c pkt.

Sutton's Excelsior. (See Page 9.)

20c pt., 30c qt... 5c pkt.

Gradus, or Prosperity. This remarkable Pea is not only large and of the best quality, but is within two or three days as early as the small, round, extra early sorts. Gradus is a wrinkled Pea, growing about 30 inches high; the pods are a bright green color, measuring 4 inches or more in length, as large as Telephone, well filled with luscious peas, 8 to 10 or more in a pod. The peas are of the highest table quality and retain in a remarkable manner their color and attractive appearance after cooking. Make the earliest sowing in the warmest spot in the garden.

15c pt., 25c qt., 90c 4 qts., \$1.65 pk... 5c pkt.

Nott's Excelsior. A dwarf wrinkled Pea of the highest excellence. The pods average three inches in length and are well filled with peas of large size and unusually sweet flavor; one and one-fourth feet.

15c pt., 25c qt., 90c 4 qts... 5c pkt.

Extra Early Premium Gem. An improved Little Gem Dwarf, green wrinkled, very prolific, fine flavored, large pods, excellent either for market or home use; one and one-half feet.

15c pt., 25c qt., 90c 4 qts... 5c pkt.

American Wonder. This variety stands unrivaled in point of flavor and quality. It is dwarf and robust in habit, growing from 10 to 15 inches in height, according to the soil.

15c pt., 25c qt., 90c 4 qts... 5c pkt.

Second Early Varieties

The Harvester. (See Page 10.)

25c pt., 40c qt... 5c pkt.

Abundance. Pods containing 6 to 8 large wrinkled Peas. It ripens about one week after the earliest kinds. A feature of this variety is its remarkable tendency to branch out at the roots, and for this reason the seed should be planted thinly; height, 1½ feet.

15c pt., 25c qt., 80c 4 qts., \$1.50 pk... 5c pkt.

Advancer. This Pea is used very extensively by market gardeners on account of its productiveness, the fine appearance of its pods and its exceedingly fine flavor. It is a wrinkled variety, grows about two feet in height, but needs no brushing as it stands up very strong itself. Has broad, long pods, which are abundantly produced and well filled to the end.

15c pt., 25c qt., 80c 4 qts... 5c pkt.

Garden Peas—Continued—Main Crop Varieties

Postage Must be Added to Price of Peas If Wanted by Mail—5c pt., 10c qt., 15c 2 qts.

SEE PAGE 10

Alderman.
Admiral Dewey
Duke of Albany.
Strategem.
Telephone.

Five Favorite Varieties

15c pt., 25c qt., 90c 4 qts., 5c pkt.

SEE PAGE 10

Everbearing. A prolific and continuous-bearing pea, giving it special value for both summer and autumn use; pods 3 to 4 inches long, containing 6 to 8 large, wrinkled peas, of rich flavor, sweet and tender. Three feet.

15c pt., 25c qt., 90c 4 qts.....5c pkt.

Improved Champion of England. One of the best known of the older varieties; a tall-growing, green, wrinkled marrow; quality unsurpassed; pods medium; peas large. Five feet.

15c pt., 25c qt., 80c 4 qts.....5c pkt.

Telegraph. A second early variety, very robust in habit, bearing immense pods. The peas when cooked, are of a deep green color. A great bearer and of fine flavor. Three and one-half feet. 15c pt., 25c qt.....5c pkt.

Parsnip

One Ounce for 200 Feet of Drill; 5 to 6 Pounds for an Acre.

Sow seed early in spring in deep, rich soil in drills. Scatter the seeds thinly and cover evenly with the rake. After the appearance of the plant the soil must be stirred frequently until the leaves cover the ground. The seed is slow to germinate, and is frequently a long time in coming up; will vegetate sooner by steeping 6 to 12 hours in a liquid manure, diluted with water, and mixed with sand before sowing. When well up thin out to 5 or 6 inches apart in the rows. Unlike Carrots, they are improved by frost, and it is usual to take up in fall a certain quantity for winter use, leaving the rest in the ground until spring, to be dug as required.

Large Sugar, or Hollow Crown. The best variety; roots long, very smooth, white, tender, sugary and of excellent flavor. This strain was made by careful selection of roots growing to an ideal shape and having the distinct hollow crown.

10c oz., 25c $\frac{1}{4}$ lb., 70c 1 lb.....5c pkt.

Student, or Guernsey. A good half-long variety, smooth, sweet and of delicate flavor.

10c oz., 25c $\frac{1}{4}$ lb., 70c 1 lb.....5c pkt.

Pepper, (Pfeffer, Ger.)

One Ounce of Seed for 1,500 Plants.

Culture.—Sow early in the spring in hotbeds, if possible, and transplant to the open ground when the weather is favorable, or sow in drills in warm, mellow soil, late in the spring and then thin out so as to stand 18 inches apart. For the convenience of those who only desire a few plants, and do not wish the trouble of starting them, we will have a supply of strong, healthy plants ready by the middle of May.

Celestial. Fruit conical in shape, one to two inches long; green from the blossom, turning alternately to lemon, golden and scarlet. 25c oz., 75c $\frac{1}{4}$ lb.....5c pkt.

Chinese Giant. Flesh is thick, mild and very sweet. Largest Pepper grown. 50c oz., \$1.50 $\frac{1}{4}$ lb.....5c pkt.

Golden Dawn. Of same shape and size of Large Bell, but of more delicate flavor; color yellow.

25c oz., 75c $\frac{1}{4}$ lb.....5c pkt.

Large Bell, or Bull Nose. Large and early, rind very thick; color glossy red; flavor mild and pleasant. 25c oz., 75c $\frac{1}{4}$ lb.....5c pkt.

Long Red Cayenne. From 3 to 4 inches long, bright-red color, very productive and hot.

25c oz., 75c $\frac{1}{4}$ lb.....5c pkt.

Small Cayenne, or Red Chili. Pods 1 $\frac{1}{2}$ to 2 inches long, very hot; used for making pepper sauce. 25c oz., 75c $\frac{1}{4}$ lb.....5c pkt.

Neapolitan. The earliest large Pepper, and most productive. The skin and flesh bright red, thick meated, sweet and mild. 25c oz., 80c $\frac{1}{4}$ lb.....5c pkt.

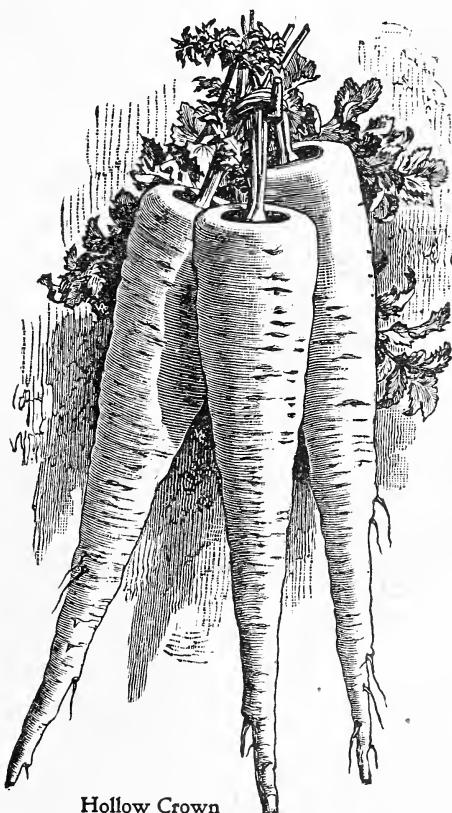
Ruby King. Large size, ruby red pods; flesh exceedingly thick, sweet and mild. 25c oz., 75c $\frac{1}{4}$ lb.....5c pkt.

Spanish Monstrous. Early and productive; flesh very sweet and mild. 25c oz., 75c $\frac{1}{4}$ lb.....5c pkt.

Sweet Mountain. Similar in shape to the Bell, but grows larger; rind thick, tender and fleshy. 25c oz., 75c $\frac{1}{4}$ lb.....5c pkt.

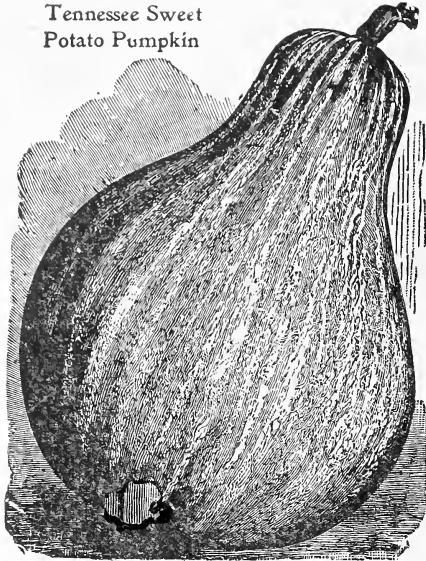


Bull Nose Pepper



Hollow Crown

Tennessee Sweet Potato Pumpkin



PUMPKIN

One Ounce for Fifteen Hills.

They are generally planted in cornfields, but they can not grow as large or fine as if the vines were not shaded. A good plan would be to plant a few seeds in the potato patch, as they are less apt to injure the crop of potatoes than the corn.

Calhoun. The outside is a creamy brown; the inside flesh is a deep salmon yellow; thick and fine-grained, and the seed cavity very small. It cooks very yellow and makes pies of high, rich color. **10c oz., 25c $\frac{1}{4}$ lb., 75c lb.....5c pkt.**

Cashaw Crook-Neck. Grows to a medium size; flesh light yellow, and is the best variety for table use. **10c oz., 25c $\frac{1}{4}$ lb., 75c lb.....5c pkt.**

Golden Cashaw. Beautiful golden-orange color; an improvement on the old Cashaw. **10c oz., 25c $\frac{1}{4}$ lb., 75c lb.....5c pkt.**

Tennessee Sweet Potato. Medium size, pear-shaped, a little ribbed, color creamy white, sometimes lightly striped with green. **10c oz., 25c $\frac{1}{4}$ lb., 75c lb.....5c pkt.**

Japanese Pie. Is very productive, ripens early, of medium size, good keeper, and weigh 15 to 20 pounds each. The flesh is a rich salmon color. **10c oz., 25c $\frac{1}{4}$ lb., 75c lb...5c pkt.**

Large Cheese. An excellent keeper, color bright orange. **10c oz., 20c $\frac{1}{4}$ lb., 60c lb.....5c pkt.**

Mammoth Tours. A productive French variety, which grows to an immense size. **10c oz., 30c $\frac{1}{4}$ lb., \$1.00 lb.....5c pkt.**

Kentucky Field. Good for cooking purposes and for feeding stock. **5c oz., 15c $\frac{1}{4}$ lb., 35c lb.**

Connecticut Field. A large, yellow variety. **5c oz., 15c $\frac{1}{4}$ lb., 40c lb.**

RADISH

Culture.—Sow for very early use in hotbeds during the winter or early spring, or later on in sheltered borders, in well-manured, deeply dug and finely raked soil; if not well stimulated into a rapid growth they become fibrous and tough. Sow in drills ten inches apart, and thin to two inches in the rows. Sow at intervals of two or three weeks until September for succession. The winter varieties should be sown in July and August, and must be taken up before severe frost and stored away in a cold cellar in sand.

One Ounce to 100 Feet of Drill. 8 to 10 Pounds for an Acre.

SPECIAL PRICES GIVEN TO MARKET GARDENERS AND OTHERS USING LARGE QUANTITIES OF RADISH SEED. SEND LIST OF WANTS AND GET ESTIMATE.

McCullough's Cincinnati Market. Largely grown by the Cincinnati market gardeners. The tops are so small that the radishes may stand touching each other in the rows. They grow perfectly straight and smooth and from six to seven inches in length. Their attractive, glossy, scarlet skin is very thin and the flesh crisp and brittle, and of delightful pungent flavor. It is the finest Long Red Radish for forcing and outsells any other that is put in competition with it on the market. Being long standing, it is also an extra fine sort for the home garden, entirely exempt from any tendency to become pithy or hollow.

10c oz., 25c $\frac{1}{4}$ lb., 75c 1 lb.....5c pkt.

Crimson Giant Forcing. (See Page 11.)

10c oz., 25c $\frac{1}{4}$ lb., 75c 1 lb.....5c pkt.

Earliest White Globe Forcing. (See Page 11.)

10c oz., 30c $\frac{1}{4}$ lb., \$1.00 1 lb.....5c pkt.

McCullough's Norwood Long White. Fine long white Radish, with beautiful shape; skin and flesh pure white. **10c oz., 20c $\frac{1}{4}$ lb., 60c lb.....5c pkt.**

White Icicle. (See Page 11.)

10c oz., 25c $\frac{1}{4}$ lb., 75c 1 lb.....5c pkt.

Long Scarlet, Short Top. Long, of a deep scarlet color; flesh white, crisp, and of good flavor.

10c oz., 20c $\frac{1}{4}$ lb., 60c lb.....5c pkt.

Non Plus Ultra. The smallest topped and earliest forcing radish. Roots small, round; deep rich scarlet; very crisp, tender white flesh.

10c oz., 25c $\frac{1}{4}$ lb., 75c 1 lb.....5c pkt.

Early Scarlet Globe. One of the earliest and best sorts for forcing; flavor mild; crisp and juicy; also good for garden culture. **10c oz., 25c $\frac{1}{4}$ lb., 75c 1 lb..5c pkt.**

Early Scarlet Turnip. A small top variety, of quick growth, mild and crisp. It is a standard sort for early planting in the open ground.

10c oz., 20c $\frac{1}{4}$ lb., 60c lb.....5c pkt.

White Tipped Scarlet Turnip. Bright scarlet color, gradually fading off to pure white at the base, tender and mild in flavor, early.

10c oz., 20c $\frac{1}{4}$ lb., 60c 1 lb.....5c pkt.

Early White Turnip. An early, crisp, Turnip-shaped Radish of a pure white color.

10c oz., 20c $\frac{1}{4}$ lb., 60c 1 lb.....5c pkt.

French Breakfast. A variety of quick growth, mild and tender, and one of the best for forcing. Oval form, scarlet, tipped with white.

10c oz., 20c $\frac{1}{4}$ lb., 60c 1 lb.....5c pkt.

Scarlet Olive-Shaped. Very handsome, quick-growing.

10c oz., 20c $\frac{1}{4}$ lb., 60c 1 lb.....5c pkt.

White Olive-Shaped. Olive-shaped, pure white, crisp and tender.

10c oz., 20c $\frac{1}{4}$ lb., 60c 1 lb.....5c pkt.

Golden Globe. Perfect globe shape, and golden-colored skin, quick growth, tender and brittle.

10c oz., 20c $\frac{1}{4}$ lb., 60c 1 lb.....5c pkt.



RADISH—Continued

Golden Dresden. Valuable and quick growing; the tops are scant and admit of closest planting; perfectly round, smooth and light golden-brown skin.

10c oz., 25c $\frac{1}{4}$ lb., 75c lb.....5c pkt.

Giant White Stuttgart. Quick growing and therefore early, of the largest size, and both flesh and skin are pure white.

10c oz., 20c $\frac{1}{4}$ lb., 60c lb.....5c pkt.

Large Rose, White Tipped. An extra large Turnip-shaped Radish, but notwithstanding its immense size, does not get pithy.

10c oz., 25c $\frac{1}{4}$ lb., 75c lb.....5c pkt.

White Strasburg. Oblong, tapering shape, skin and flesh pure white, firm and brittle, fine for winter use.

10c oz., 20c $\frac{1}{4}$ lb., 60c lb.....5c pkt.

Chartier. Half-long, of quick growth; color deep pink above and gradually blending into a pure waxy white to root.

10c oz., 20c $\frac{1}{4}$ lb., 60c lb.....5c pkt.

WINTER RADISHES

Black Spanish, Oval Shape. A black valuable winter sort.

10c oz., 20c $\frac{1}{4}$ lb., 60c lb.....5c pkt.

Black Spanish, Long. Differs from the above only in shape.

10c oz., 20c $\frac{1}{4}$ lb., 60c lb.....5c pkt.

Celestial. An all-season white Radish.

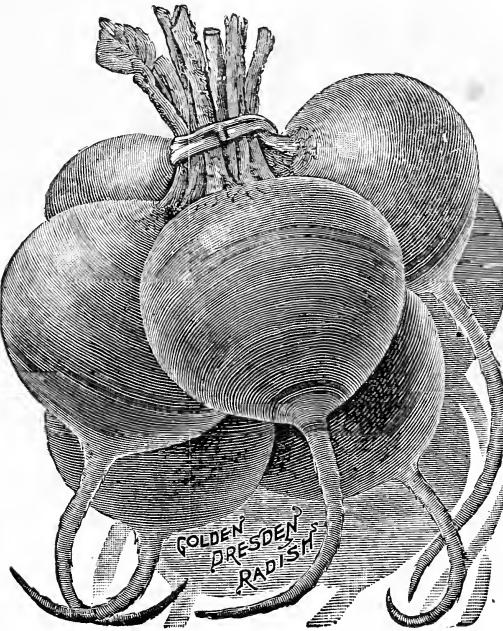
10c oz., 25c $\frac{1}{4}$ lb., 75c lb.....5c pkt.

Chinese Scarlet. Half-long, fine winter sort, keeps well.

10c oz., 20c $\frac{1}{4}$ lb., 60c lb.....5c pkt.

Mammoth White Winter. A giant white-fleshed fall Radish.

10c oz., 20c $\frac{1}{4}$ lb., 60c lb.....5c pkt.



RHUBARB

One Ounce Will Produce 600 Plants. For Rhubarb Roots, see Vegetable Plants.

Culture.—Sow in April in drills 18 inches apart, and cover the seed with fine soil, pressing it down firmly. When the plants are strong enough, thin out to 6 inches.

Linnaeus. Best sort for general purposes; early, large and tender. 15c oz., 50c $\frac{1}{4}$ lb.....5c pkt.

Victoria. Very large; later than Linnaeus. 15c oz., 50c $\frac{1}{4}$ lb.....5c pkt.

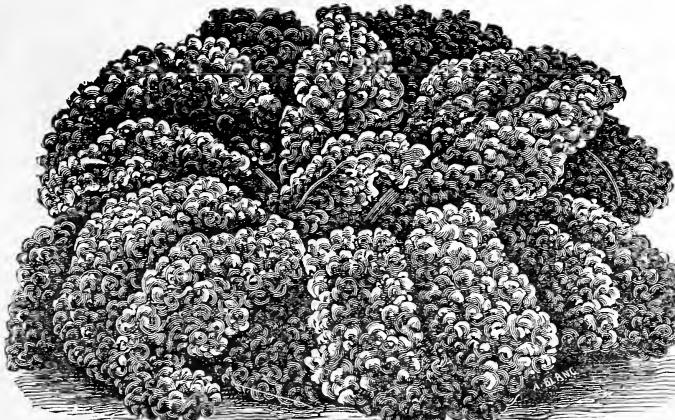
SALSIFY, (Hafer—Wurzel, Ger.)

One Ounce Will Sow 50 Feet of Drill.

Commonly called Vegetable Oyster. The cultivation is precisely the same as directed for Parsnips, and it will keep over winter, in the ground where grown, in the same way as Parsnips.

Mammoth Sandwich Island. This variety will average nearly double the size of the White French, and is of excellent quality. The best variety for market gardeners' use. 15c oz., 40c $\frac{1}{4}$ lb.....5c pkt.

Long White French. Roots of medium size, white and smooth. 10c oz., 30c $\frac{1}{4}$ lb.....5c pkt.



Norwood Savoy Spinach

Longest Season. A distinct hardy variety, with large, thick, fleshy, dark green leaves, which are produced in great abundance in any season. It is slower in running to seed than any other variety now in use.

10c oz., 15c $\frac{1}{4}$ lb.; 35c 1 lb.....5c pkt.

Victoria. A variety with heavy, broad, dark green leaves. Two or three weeks later than other sorts in going to seed. Valuable for spring sowing. 10c oz., 15c $\frac{1}{4}$ lb.; 35c 1 lb.....5c pkt.

Prickly Seeded, or Fall. The hardest variety, having smaller leaves; is not so productive as the above.

10c oz., 15c $\frac{1}{4}$ lb.; 35c 1 lb.....5c pkt.

New Zealand. Yields an abundance of the tenderest Spinach during the hottest months of the year, or in dry arid localities where the ordinary Spinach runs to seed. The seed is sown where the plants are to stand, in May, or earlier in a hotbed and transplanted, and the plants will continue to yield a supply of good leaves of excellent quality during the entire summer, requiring scarcely any attention.

10c oz., 30c $\frac{1}{4}$ lb.....5c pkt.

We urge you to place your order for Seeds as early as possible. There is a very great rush every Spring but if you have ordered early you will have the seeds to plant the moment they are required. We try to get every order off the day following its receipt. Will you not help us, by placing your order early?

SPINACH

One Ounce for 100 Feet of Drill.

10 to 12 Pounds for an Acre. Special Prices Given on Spinach in Quantity.

Culture.—For spring and summer use, sow either broadcast or in drills as early as the ground can be worked. The fall sowing is the main one with our market gardeners, which is done from August to October, and by careful attention they have it in marketable condition throughout the entire winter and spring. If the land is dry the seed should always be rolled or trampled in, for if the soil is loose the hot air shrivels the seed, so that it will not germinate.

Norwood Savoy. One of the best for either the market or kitchen garden.

A quick-growing, round-seeded variety, producing thick, dark green, slightly crimped leaves; in large demand for either spring or fall sowing.

10c oz., 15c $\frac{1}{4}$ lb., 35c lb. 5c pkt.

Bloomsdale Savoy. The hardest large Savoy leaved, curled and crimped with thick, fleshy leaves, good for family and market purposes.

10c oz., 15c $\frac{1}{4}$ lb., 35c lb. 5c pkt.

Long Island. A variety with long, narrow, pointed leaves, and a very strong, pungent flavor.

10c oz., 15c $\frac{1}{4}$ lb., 35c lb. 5c pkt.

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10c oz., 15c $\frac{1}{4}$ lb., 35c lb. 5c pkt.



Mammoth White Bush Squash

SQUASH

Culture.—It is useless to sow until the weather has become settled and warm. Light soils are best suited for its growth. Prepare hills for the seeds by incorporating 2 or 3 shovelfuls of well-rotted manure with the soil for each hill. For the bush varieties, from 3 to 4 feet each way, and for the running sorts from 6 to 8 feet. Eight or ten seeds should be sown in each hill, thinning out after they have attained their rough leaves, leaving 3 or 4 of the strongest plants, after which cultivate same as Cucumbers.

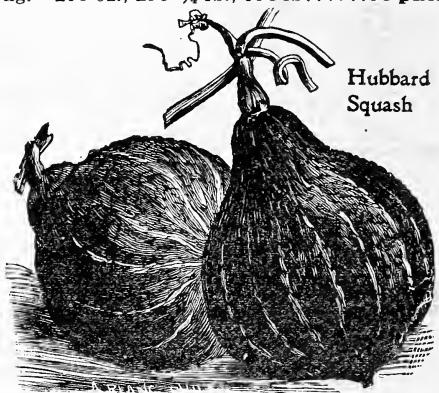
One Ounce of the Bush Varieties for 40 Hills, or of the Large-Seeded Kinds, 15 Hills.

Summer Varieties

Mammoth White Bush.	The best early variety for market or shipping. It grows to a large size; scalloped like a pattypan.	10c oz., 25c $\frac{1}{4}$ lb., 75c lb.	5c pkt.
Early Yellow Bush.	An early, flat, scallop-shaped variety; color yellow; flesh pale yellow, and well flavored.	10c oz., 25c $\frac{1}{4}$ lb., 75c lb.	5c pkt.
Summer Crook-Neck.	Covered with warty excrescences; color bright yellow; shell very hard when ripe.	10c oz., 25c $\frac{1}{4}$ lb., 75c lb.	5c pkt.
Vegetable Marrow.	Skin a greenish-yellow, flesh white, grows 9 to 18 inches long.	10c oz., 25c $\frac{1}{4}$ lb., 75c lb.	5c pkt.

Fall or Winter Varieties

Hubbard.	Standard winter Squash; grown more extensively than any other late variety; color dark green; shell extremely hard; flesh dry, fine grained and sweet; excellent keeper.	10c oz., 25c $\frac{1}{4}$ lb., 75c lb.	5c pkt.
Warted Hubbard.	This strain, without doubt, grows the finest Hubbard in existence. The wartiness indicates a very hard shell, which is one of the features in a long-keeping Squash; it also denotes extra choice quality—the harder and more warty the shell of a Hubbard Squash is the more delicate and sweet the flesh will be found to be.	10c oz., 25c $\frac{1}{4}$ lb., 75c lb.	5c pkt.
Marblehead.	Resembling the Hubbard, but of a lighter color, and is remarkable for its sweetness, dryness and delicious flavor, as well as its keeping qualities.	10c oz., 25c $\frac{1}{4}$ lb., 75c lb.	5c pkt.
Mammoth Chili.	Rich orange-yellow; flesh thick and of good quality for making pies; grows to an enormous size; a valuable sort for feeding stock.	15c oz., 40c $\frac{1}{4}$ lb., \$1.00 lb.	5c pkt.
Boston Marrow.	A popular winter variety; quality unexcelled.	10c oz., 25c $\frac{1}{4}$ lb., 75c lb.	5c pkt.
Delicious.	Resembles the old Hubbard, having a dark olive-green hard shell, weight from 5 to 10 lbs. For table use it can not be excelled, the flesh being remarkably thick, fine grained, sweet and of rich flavor.	15c oz., 40c $\frac{1}{4}$ lb., \$1.20 lb.	5c pkt.
Essex Hybrid.	Very prolific, fine-grained, orange-red flesh.	10c oz., 25c $\frac{1}{4}$ lb., 75c lb.	5c pkt.
Fordhook.	A winter Squash of great merit. Of a handsome bright yellow color outside and straw-yellow within. The flesh is dry and sweet.	10c oz., 25c $\frac{1}{4}$ lb., 75c lb.	5c pkt.

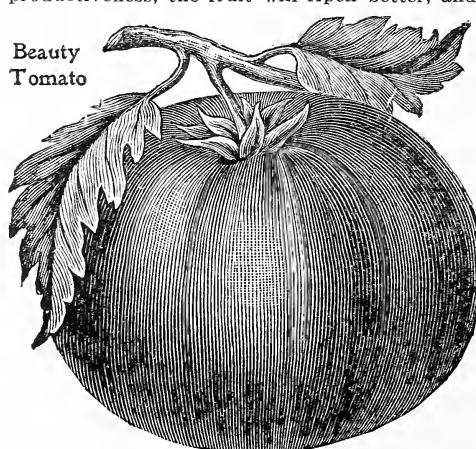


Hubbard Squash

TOMATO

One Ounce of Seed Will Produce About 2,000 Plants— $\frac{1}{4}$ Pound to the Acre.

Culture.—Sow in a hotbed, green-house or window in a sitting room, where night temperature is not less than sixty degrees, about the first week in March, in drills five inches apart and half an inch deep. When the plants are about two inches high they should be set out in boxes three inches deep, four or five inches apart, in same temperature, or removed into small pots, allowing a single plant to a pot. They are sometimes transplanted a second time into larger pots, by which process the plants are rendered more sturdy and branching. About the middle of May, the plants may be set in the open ground. They are planted for early crops on light, sandy soil, at a distance of three feet apart, in hills in which a good shovelful of rotted manure has been mixed. On heavy soils, which are not suited for an early crop, they should be planted four feet apart. Water freely at the time of transplanting and shelter from the sun a few days until the plants are established. For late use, sow in a sheltered border in May, and set out the plants in July; the green fruit can be picked off before frost, and ripened under glass. By training the tomato vines on trellises or tying to stakes, they will increase in productiveness, the fruit will ripen better, and be of finer quality.



Acme.	Very early and productive; fruit medium sized, and of a dark, rich red, slightly tinged with purple; very solid and smooth.	20c oz., 60c $\frac{1}{4}$ lb.	5c pkt.
Earliana.	The earliest smooth tomato, of good size and flavor. Tomatoes are deep scarlet, and grow closely together in clusters of five to eight, all of medium size, averaging $2\frac{1}{2}$ inches in diameter; they are smooth and solid, quite thick through and free from rough ribs or cracks. The flesh is deep red, with solid center and small seed cells, slightly acid flavor.	25c oz., 75c $\frac{1}{4}$ lb.	5c pkt.
Norwood. (See Page 12.)	30c oz., 80c $\frac{1}{4}$ lb.	5c pkt.	
Beauty.	Rich, glossy crimson, with a slight purple tinge. The fruit grows in clusters of four to five, is of large size, very smooth, and retains its character till late in the season.	25c oz., 70c $\frac{1}{4}$ lb.	5c pkt.
Buckeye State.	The tomatoes are borne in immense clusters of four to eight large fruits. In solidity and meatiness it has no equal, while in luscious quality none surpass it. Color, rich glossy crimson, with a slight purple tinge.	30c oz., 90c $\frac{1}{4}$ lb.	5c pkt.
Cincinnati Purple.	A valuable variety, especially adapted for canning and shipping. It is very large, color a dark purplish-red. Very productive and of rich flavor.	25c oz., 70c $\frac{1}{4}$ lb.	5c pkt.
Dwarf Giant, New.	(See Page 12.)	40c oz., \$1.25 $\frac{1}{4}$ lb.	5c pkt.

Special Prices Given to Market Gardeners and Truckers.

TOMATO—Continued

Dwarf Champion. Of dwarf, stiff, distinct, upright growth, scarcely needing support; early and prolific; smooth, medium-sized fruits of pinkish purple color. **25c oz., 75c $\frac{1}{4}$ lb.....5c pkt.**

Dwarf Stone. Foliage heavy and a rich dark green. The fruits are produced in clusters of 3 to 5, averaging 4 inches in diameter and $2\frac{1}{2}$ inches in depth, bright scarlet color, smooth and regular. **30c oz., 80c $\frac{1}{4}$ lb.....5c pkt.**

Perfection. Almost round fruits; smooth, tough skin of brilliant scarlet; ripens thoroughly; solid and of rich flavor. **20c oz., 60c $\frac{1}{4}$ lb.....5c pkt.**

Ponderosa. (See Page 12.) **30c oz., 90c $\frac{1}{4}$ lb.....5c pkt.**

Stone. (See Page 12.) **25c oz., 60c $\frac{1}{4}$ lb.....5c pkt.**

Trucker's Favorite. One of the finest large-fruited purple sort. The plants are of strong growth and productive. The tomatoes are of large size, deep through, very smooth and regular, free from cracks, solid, meaty with small seed-cells and fine flavor. **25c oz., 75c $\frac{1}{4}$ lb.....5c pkt.**

Favorite. A large, handsome and uniform-shaped tomato; solid, smooth and bright scarlet; ripens early. **20c oz., 60c $\frac{1}{4}$ lb.....5c pkt.**

Globe. A beautiful globe-shaped variety. Large size, smooth, firm fleshed, few seeds, ripens evenly; color, a beautiful glossy rose, tinged purple. **30c oz., \$1.00 $\frac{1}{4}$ lb.....5c pkt.**

Coreless. A perfect shaped canning variety, large size, globe shaped, full at stem end, bright red, a strong grower and a big cropper. In shape it is almost round. It is immensely productive, clusters of four to seven fruits are produced at six to eight inches apart along the stem. **30c oz., 90c $\frac{1}{4}$ lb.....5c pkt.**

Matchless. A standard main crop, bright red variety producing enormous crops of finest scarlet fruits. **25c oz., 75c $\frac{1}{4}$ lb.....5c pkt.**

Golden Queen. Large, smooth fruits, of a beautiful golden color; quality, excellent; attractive for slicing and mixing with sliced red sorts. **25c oz., 75c $\frac{1}{4}$ lb.....5c pkt.**

PRESERVING TOMATOES.

The following small-fruited varieties are used for making preserves:

Pear-Shaped. Yellow Plum. Red Cherry.

Strawberry, Winter Cherry or Husk.

Each—**25c oz.,5c pkt.**

TOMATO PLANTS are a specialty of ours. See vegetable plants.

To Insure Good Results Buy Your Seeds at the
Original McCullough's Store

316 Walnut Street

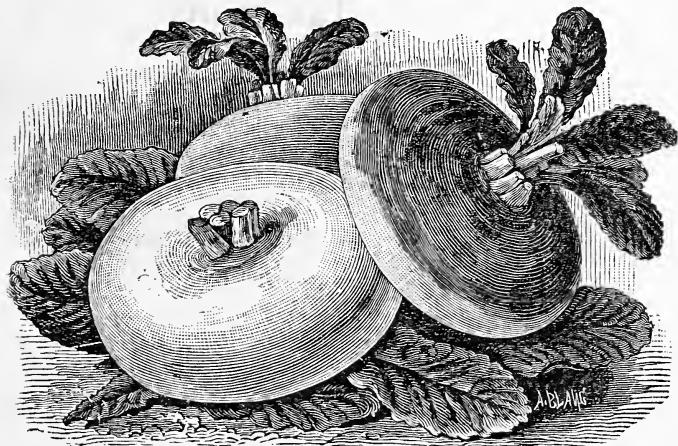
Just Below Fourth St. Our Only Retail Store.

TURNIP (Ruben, Ger.)

One Ounce Will Sow 150 Feet of Drill; 1 to 1 $\frac{1}{2}$ Pounds to the Acre.

The soil for Turnips should be rich and mellow. For an early crop, sow early in the spring, in drills, about a foot apart or broadcast and thin out. For a general crop, sow from the first of July to the last of August, in drills 18 to 20 inches apart, and thin out the plants to 8 or 10 inches. To destroy the fly, which is very destructive to the Turnip crop, use "Hammond's Slug Shot." Sow an abundance of seed and thin out. Should the crop be destroyed, harrow the ground immediately and sow again.

Special Prices Given on Turnip Seed in Larger Quantities.



White Flat Dutch

Purple Top, Strap Leaf

Amber Globe. A beautiful formed variety, quite productive, solid flesh and attractive color; it keeps well and is desirable for either table use or for stock feeding. **10c oz., 20c $\frac{1}{4}$ lb., 50c lb.....5c pkt.**

Golden Ball, or Orange Jelly. A rapid grower, of excellent flavor, globe-shaped, bright yellow color, good keeper and a superior table variety, or for stock. **10c oz., 20c $\frac{1}{4}$ lb., 50c lb.....5c pkt.**

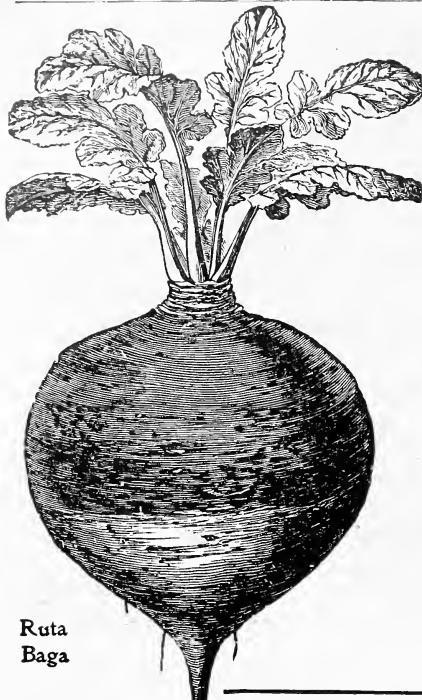
White Egg. An egg-shaped variety for spring or fall sowing; flesh white, firm, fine grained, mild and sweet. **10c oz., 20c $\frac{1}{4}$ lb., 50c lb.....5c pkt.**

Long White, or Cow Horn. Grows quickly, partly above ground, very productive; flesh white, fine grained, sweet, excellent quality for family and market gardener's use. **10c oz., 25c $\frac{1}{4}$ lb., 60c lb.....5c pkt.**

Seven Top. Cultivated extensively in the South for the tops, which are used for greens. It is very hardy and will grow all winter. Does not produce a good root. **10c oz., 20c $\frac{1}{4}$ lb., 50c lb.....5c pkt.**

Purple Top Yellow Aberdeen. A large, globe-shaped Turnip, with yellow flesh of fine quality, a good keeper, popular for table or stock. **10c oz., 20c $\frac{1}{4}$ lb., 50c lb.....5c pkt.**

SWEDÉ OR RUTA BAGA TURNIPS, SEE PAGE 34.



Swede or Ruta Baga Turnip

For Ruta Bagas, sow seed in seed-bed in spring and transplant to good, warm soil, in rows at least 2 feet apart and 8 or 10 inches apart in the rows, or sow in open ground during June and early July. Take up the roots just before winter, top and store in cool cellar, or pit outdoors.

American Purple Top. Very hardy and productive; flesh yellow, solid, sweet, good for stock or table use.

10c oz., 20c $\frac{1}{4}$ lb., 50c lb. 5c pkt.

Skirving's Purple Top. An important variety of large size and strong growth, a heavy cropper and one of the best for field culture. 10c oz., 20c $\frac{1}{4}$ lb., 50c lb. 5c pkt.

Budlong's Improved. White, very sweet, much milder flavor than any of the other sorts, globe-shaped, skin a cream yellow. 10c oz., 20c $\frac{1}{4}$ lb., 50c lb. 5c pkt.

Long Island Improved Purple Top. A uniform large rooted, quick growing, yellow fleshed sort. 10c oz., 20c $\frac{1}{4}$ lb., 50c lb. 5c pkt.

Other Turnips—(See Page 33.)

Tobacco

The seed should be sown as early as possible after danger of frost is over. A good plan is to burn a quantity of brush and rubbish in the spring, on the ground intended for the seed bed, then dig and thoroughly pulverize the earth and mix with the ashes, after which the seed may be sown and covered very lightly.

Connecticut Seed Leaf. A long leaf, fine in texture.

30c oz. 5c pkt.

Conqueror. It ripens early, and is easily cured to the brightest color. 30c oz. 5c pkt.

Havana. A medium leaf, fine texture. Commands a high price. 40c oz. 5c pkt.

White Burley. Extra stock, grown largely for the manufacture of fine-cut. 25c oz. 5c pkt.

Zimmer's Spanish. One of the most popular and extensively grown. 30c oz. 5c pkt.

Herb Seeds

(See Page 22)

Vegetable Plants and Roots

POSTAGE:—Prices do not include prepayment by mail or express. If wanted by mail, add for postage, 5c per dozen, 25c per 100 on Cabbage, Cauliflower, Celery and Sweet Potato Plants; 10c per dozen on Egg Plants, Pepper and Tomato Plants.

We are Large Growers of Vegetable Plants. Have Them Fresh Every Day in Season. Special Prices Given on Large Quantities.

Asparagus Roots

Deep, warm, rich, loamy soil, deeply and thoroughly stirred, is required for permanent bed. Use manure and fertilizers freely. Make furrows 2 or 4 feet apart and 8 to 10 inches deep. Set the two-year-old roots 18 to 24 inches apart in the bottom of furrows and cover lightly at first. Gradually fill in with soil and old compost. In early spring fork or plow the bed shallow and carefully, or pulverize the surface by harrowing. Give clean cultivation until fall; then cover with manure or compost. Second season after planting hill up the rows, especially for blanched "grass," and cut sparingly for use. After that the bed will give full crops. In the fall, as soon as the tops are ripe and yellow, they should be cut and burned. Two-year-old roots will insure the best and earliest results.

Strong two-year-old Roots of the following varieties—buyer paying transit:

Palmetto, \$1.00 per 100; \$2.00 per 250; \$7.00 per 1000.

Argenteuil, \$1.00 per 100; \$2.00 per 250; \$7.00 per 1000.

Barr's Mammoth, \$1.00 per 100; \$2.00 per 250; \$7.00 per 1000.

Columbian Mammoth White, \$1.00 per 100; \$2.00 per 250; \$7.00 per 1000.

Conover's Colossal, \$1.00 per 100; \$1.75 per 250; \$6.00 per 1000.

Special Prices Quoted on Larger Quantities.

Cabbage Plants

Early Jersey Wakefield—50c per 100; \$4.00 per 1000.

Louisville Drumhead—50c per 100; \$4.00 per 1000.

Premium Late Flat Dutch—40c per 100; \$3.00 per 1000.

Cauliflower Plants

Earliest Dwarf Erfurt—25c per doz., \$1.50 per 100.

Early Snowball—25c per doz., \$1.50 per 100.

Celery Plants

Leading Sorts—50c per 100; \$3.50 per 1000.

Chives

Good clumps—10c each; \$1.00 per doz.

Egg Plants

40c per doz., \$3.00 per 100.

Horseradish Sets

15c per doz., 65c per 100, (By mail, 25c per doz.; 90c per 100, postpaid.)

Pepper Plants

Large Bell, or Bull Nose—30c per doz., \$1.50 per 100.

Ruby King—30c per doz., \$1.50 per 100.

Sweet Potato Plants

Nansemond, or Jersey Yellow—30c per 100.

Red Bermuda—40c per 100.

Southern Queen—35c per 100.

Tomato Plants

Transplanted plants offer many advantages over seedlings, they produce fruit much earlier and are more easily shipped.

Transplanted Tomato Plants—Leading sorts—25c per doz., \$1.75 per 100.

Rhubarb Roots

Single Eye (by mail, 75c doz.); each, 5c; 50c doz.

Small Clumps (by express or freight only), 10c each, \$1.00 per doz.

Large Clumps (by express or freight only), 25c each, \$2.50 per doz.

Potatoes. (See Field Seed, etc.)

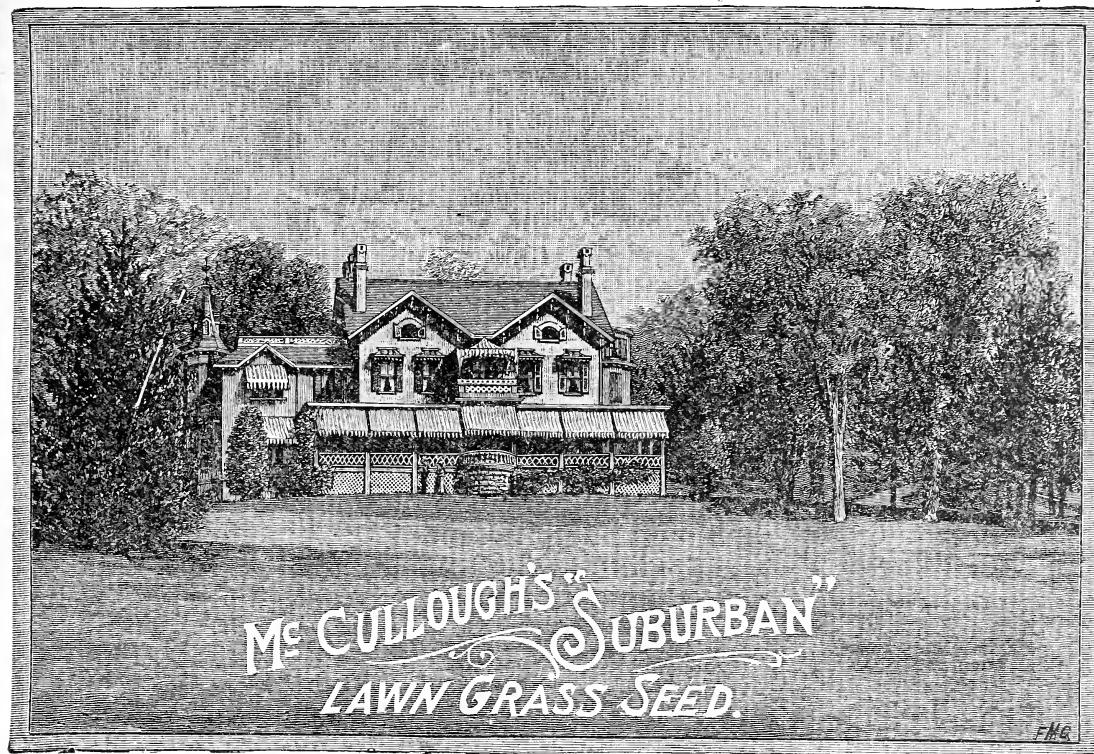
To Insure Good Results Buy Your Seeds at the

Original McCullough's Store

316 Walnut Street

(Just below Fourth St.)

Our only Retail Store



McCullough's "Suburban" Lawn Grass Seed

(Trade Mark Registered)

IS a mixture of the finest Dwarf Evergreen Grasses that grow and flourish during different months of the year so that a rich, deep, green, velvety lawn is constantly maintained. Our mixture is the result of several years experimenting, and, as we now offer it, is unequalled. The quantity required for making a new lawn is four bushels (64 lbs.) per acre, or for renovating old lawns, two bushels (32 lbs.) per acre. For a plot 15x20, or 300 square feet, one pound is required for a new lawn, or about one-half pound for renovating.

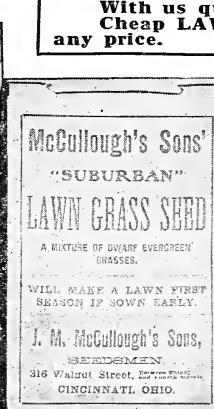
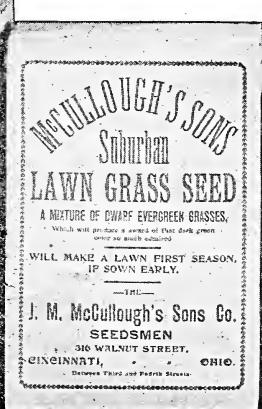
A lawn seed mixture is very much to be preferred to any single grass; if it is honestly made, the several varieties of grass which compose it, mature at different seasons of the year, thus keeping the green sward in good color and condition during the hot weather, not losing its color, as the single variety is liable to do.

For directions—HOW TO MAKE A LAWN—See next page

NOTE.—The price of "Suburban" Lawn Grass Seed is based upon sixteen pounds to the bushel. We mention this because there is no standard weight per bushel for Lawn Grass Seed in the United States; those who prefer to buy by weight may base their calculations in this way.

Owing to the cleaning process that our "Suburban" Lawn Grass Seed is put through it will be found to contain a much larger per cent of actual seed and less chaff than ordinary Lawn Seed.

—SOW IT ACCORDINGLY—



With us quality is first consideration.
Cheap LAWN GRASS SEED is dear at any price.

Postage Must be Added
if Wanted by Mail.

See Postal Rates, Second
Page of Cover.

PRICES.

½ lb. pkt.	15c
1 lb. pkt.	25c
2 lb. pkt.	50c
5 lb. pkt.	\$1.00
8 lb. Bag (½ Bushel)	\$1.50
16 lb. Bag (1 Bushel)	\$3.00

USE OUR SHADY PLACE
FOR, SHADY SPOTS
See Page 36

The Formation of a New Lawn

How to Make a Lawn.—A fine lawn is an unfailing mark of intelligence and taste, to obtain which the main point is to start right. Seed will make a better lawn than turf or sod. The best soil is a good medium texture; the surface should be thoroughly pulverized and smoothed to the desired grade; remove all large stones, roots and hardened pieces of earth that can not be readily broken; ample time being allowed for the thorough settling of the soil, which is greatly aided by a few heavy showers of rain. When the soil is firm, level and suitably moist, sow **"Suburban" Lawn Grass Seed** at the rate of four bushels (64 lbs.) per acre. It is unwise to be too economical in the quantity of seed used, if the best results are desired. The seed should be sown broadcast and as evenly as possible, then give a thorough rolling or pat well with the back of a spade. The seed must be well firmed in the soil. When the young grass attains a height of 4 or 5 inches, carefully mow with a sharp scythe. After this, according to the season, it should be mown with a lawn mower every week or ten days.

General Surface Renovating.—When your lawn has already been established, you will find it to your advantage to lightly re-seed each season. As early as possible, carefully rake off all dead leaves, etc., and give the lawn a dressing of our pulverized **EL PASO SHEEP MANURE**, at the rate of at least 500 pounds per acre, and rake in, after which sow our **"Suburban" Lawn Grass Seed** at the rate of two bushels (32 lbs.) to the acre; roll thoroughly or pat with the back of a spade.

Renovating in Spots or Patches.—Everyone is aware that even in the best-kept lawns unsightly spots devoid of grass will appear, which are caused by root-destroying insects; and as these spots are not protected by a covering of turf during the winter, as a natural consequence, the chemical elements in the soil are leached out by the action of the weather, causing them to "cake" or become hard early in the spring. It is useless and a waste of seed to sow these spots unless they are carefully prepared to receive the seed. For this purpose it is our practice to cover them with either of the fertilizers mentioned above at the rate of 13 lbs. for each 300 square feet, then dig these spots up, and after raking until no trace of the fertilizers can be seen, sow our **"Suburban" Lawn Grass Seed** at the rate of 1 lb. to each 300 square feet. Roll thoroughly or pat with the back of a spade. When any weeding is done on the lawn immediately drop a few grains of seed wherever a weed is removed, and while the soil is disturbed press the seed into the soil.

"EL PASO" SHEEP MANURE IS THE BEST FERTILIZER FOR LAWNS. (See Fertilizers.)

Special Mixtures For Lawns, Terraces, Golf Links and Putting Greens

"Suburban" Lawn Grass. This special mixture produces beautiful and permanent lawns. It is made from our own formula, and composed of grasses which are adapted for the purpose of producing turf which retains its rich, green color and velvety appearance throughout the entire summer and fall. See also page 35. **15c 1/2 lb., 25c 1 lb., \$1.00 5 lbs., 1 bu. of 16 lbs., \$3.00.**

Shady Place Mixture. On nearly all lawns there are shaded, bare and unsightly spots on which the owners have difficulty in getting a stand of grass; for such places this mixture is adapted. It is composed of dwarf-growing grasses which are found naturally growing in such places. Should the ground have become "sour" or drainage defective, it is apt to be covered with moss. If such is the case, apply some lime or land plaster to sweeten it, but the moss should first be removed by the use of a sharp rake, then sow the seed at the rate of four bushels (64 lbs.) per acre. **20c 1/2 lb., 35c 1 lb., \$1.50 5 lbs., 1 bu. of 16 lbs., \$4.00.**

Terrace Mixture. There is nothing more annoying than to have ground washed out. In this mixture we have put quick-growing and deep-rooted grasses. Of course, it depends a great deal on this being well started before very heavy rains. **30c 1 lb., \$1.25 5 lbs., \$3.50 for 1 bu. of 16 lbs.**

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

Mixed Grasses for Meadows and Pastures

After years of experimenting we have aided largely in establishing the fact that a thicker and more prolonged growth is produced by a mixture of several varieties than when only one or two are used. There are always certain grasses that are especially adapted to certain kinds of soils, and these are so carefully combined in our mixtures that in our **Mixture for Permanent Pastures** grasses will be found that mature at intervals during the season, thereby insuring continuous pastureage, while our **Mixture for Permanent Meadow** will furnish excellent hay as well as late pastureage.

We are prepared to furnish seeds adapted to all soils and all situations, and for all purposes, composed of grasses for light, medium or heavy soils; by light soils we mean that which is more or less of a sandy or gravelly nature; the heavy clay and heavy loams; while the medium is an intermediate between these two. A light, wet soil, with respect to the grasses suited to it, may be considered same as to the heavy soils, and a dry, heavy soil, more as to light soils.

Our best mixture is made entirely with our choice re-cleaned seeds, while in our second quality we use the same seeds, but without re-cleaning, and will be equal to the qualities usually to be had on the market. Our mixtures will all have a uniform weight of 16 pounds to the bushel. Quantity to be used per acre, one and one-half to two bushels, and half this quantity for renovating. In ordering, always state the soil and position on which you wish to use it.

FIRST QUALITY MIXTURES.

For meadows—**25c 1 lb., \$1.50 8 lbs., \$2.50 bu., 16 lbs.**
For permanent pasture—**20c 1 lb., \$1.20 8 lbs.; \$2.25 bu., 16 lbs.**
For pasture and hay in orchard and other shady places—**20c 1 lb.; \$1.50 8 lbs.; \$2.50 bu., 16 lbs.**
For marshy grounds—**20c 1 lb.; \$1.35 8 lbs.; \$2.50 bu., 16 lbs.**
For sandy and rocky grounds—**20c 1 lb., \$1.35 8 lbs.; \$2.50 bu., 16 lbs.**

SECOND QUALITY MIXTURES.

For meadows—**20c 1 lb., \$1.25 8 lbs.; \$2.25 bu., 16 lbs.**
For permanent pasture—**20c 1 lb.; \$1.25 8 lbs.; \$2.00 bu., 16 lbs.**
For pasture and hay in orchard and other shady places—**20c 1 lb.; \$1.25 8 lbs.; \$2.00 bu., 16 lbs.**
For marshy grounds—**20c 1 lb.; \$1.25 8 lbs.; \$2.25 bu., 16 lbs.**
For sandy and rocky grounds—**20c 1 lb.; \$1.25 8 lbs.; \$2.25 bu., 16 lbs.**

GRASS SEEDS

For many years Grass Seeds have been one of our most important specialties, and our improved and perfected facilities for handling same (at a minimum cost), either in small or car lots, enables us to offer our customers the best possible service, both as to quality and promptness in executing orders.

We would call attention to the fact that Cincinnati is an important Grass Seed center. WE EXPORT MANY CARLOADS OF GRASS SEED—THE WORDS "MCCULLOUGH" AND "BLUE GRASS" BEING VERY FAMILIAR TO THE PRINCIPAL SEED DEALERS OF THE WORLD.

While we expect to adhere closely to prices quoted in this list, owing to market fluctuations it is impossible to guarantee prices, but all orders will be filled at lowest market price on day of receipt.

We have four or five different grades of Grass Seed, especially of the kinds most in demand, such as Clovers, Timothy, Blue Grass, Red Top, etc.

We will be pleased to quote lowest market price on application.

For best results, we advise the use of our highest grades, "XXXX" and "Buckeye."

We are the largest buyers in this section, and will always pay the highest market price. Submit samples and name quantity to offer.

Our prices on light Grass Seeds include burlap bags and delivery to freight or express depots here, purchaser paying transportation charges. Seamless cotton bags holding two bushels, 22c each extra.

The number of pounds to the bushel, in brackets, is the old way of offering Grasses, and is mentioned merely for reference.

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.



Kentucky Blue Grass, Fancy Cleaned (*Poa Pratensis*). Also known as June Grass, Green Grass, etc. This is rated as the finest permanent pasture Grass. Especially suited to meadows and rich lands. It is the Grass of the famous and fertile limestone soils of Kentucky, and is no less a favorite all through the Northern States. A perfect lawn Grass. Sow 3 to 4 bushels per acre for lawn; 2 bushels to the acre for pasture (14 lbs. per bushel). Fancy clean seed. **15c** lb., **70c** for 5 lbs., **\$1.00** for 8 lbs., **\$1.50** per bushel of 14 lbs.

Other Grades. Price Will be Quoted on Application.

Red Top Grass (*Agrostis Vulgaris*, *Herd's Grass*, *Quick Grass*). Perennial; height 1 to 2 feet. Valuable either for lawn mixtures, mixing in hay, or permanent pasture Grasses; succeeds almost everywhere, but reaches its highest state of perfection in a moist rich soil in which it attains a height of 2 to 2 1/2 feet. Sow if alone, 45 lbs. per acre. Weight, 14 lbs. per bushel. **Choice Seed in Chaff—20c** lb., **\$1.75** for 10 lbs., **\$16.00** per 100 lbs. **Fancy Pure Seed**—Weight about 32 lbs. per bushel. Sow 10 to 12 lbs. per acre. **35c** lb., **\$3.00** for 10 lbs., **\$27.50** per 100 lbs.

Perennial, or English Rye Grass (*Lolium Perenne*, Imported English Blue Grass). Height, 15 to 24 inches. Considered invaluable for permanent pastures. It produces an abundance of remarkably fine foliage, tillers out close to the ground, and soon forms a compact sward. After being cut it grows up in a very short time, and remains bright and green throughout the season, consequently is well adapted for lawn mixtures. Valuable for shady places. Also a good variety for hay, if cut when in blossom, as it is then most nutritious. Sow, if alone, 65 lbs. per acre. Weight, 24 lbs. per bushel. **15c** lb., **\$1.00** for 10 lbs., **\$7.00** per 100 lbs.

Canadian Blue Grass (*Poa Compressa*). Also called flat-stemmed poa, Flat-stalked Meadow Grass. Grows a foot or more high. Recommended for horses, cows and sheep. Thrives well on clay. Sow 30 lbs. per acre. **15c** lb., **\$1.00** for 10 lbs.

Orchard Grass (*Dactylis Glomerata*, or Rough Cocksfoot). Perennial. Height 3 feet. It blossoms about the same time as Red Clover, making it, on that account a desirable mixture with that plant. It is exceedingly palatable to stock of all kinds, and its powers of enduring the cropping of cattle commend it as one of the very best pasture Grasses. Sow 35 lbs. to the acre. Weight, 14 lbs. to the bushel. **20c** lb., **\$1.65** for 10 lbs., **\$15.00** per 100 lbs. Lower qualities at their value.

Awnless Brome Grass (*Bromus Inermis*). A hardy perennial, standing extreme of heat and cold and drought. In the South it remains green all winter. It will grow well on all kinds of soil. The seed should be sown as early in the spring as the ground can be worked. (10 lbs. per bushel.) Sow 35 to 40 lbs. to the acre. **20c** lb., **\$1.75** for 10 lbs., **\$16.00** per 100 lbs.

Bermuda Grass (*Cynodon Dactylon*). A valuable Grass for the South and for tropical climates; will not endure frost. Sow 6 to 8 lbs. per acre. **\$1.00** lb.

Creeping Bent (*Agrostis Stolonifera*). Valuable in mixture with other Grasses for lawn, etc. Suitable also for moist localities. (12 lbs. per bu.) Sow 30 lbs. per acre. **40c** lb., **\$3.75** 10 lbs., **\$35.00** 100 lbs.

Crested Dogstail (*Cynosurus Crystatus*). Perennial. Height, 1 to 1 1/2 feet. An excellent Grass for hard, dry soils; valuable for pastures and lawns, as it is very hardy, tender, nutritious, and relished by all stock. (21 lbs. per bushel.) Sow, if alone, 35 lbs. per acre. **35c** lb., **\$3.00** for 10 lbs.

Hard Fescue (*Festuca Duriuscula*). Perennial. Height, 12 to 24 inches. Thrives well in dry situations. The herbage is decidedly tender, but the flower heads, when ripe, become hard. Sow, if alone, 30 lbs. per acre. Weight, 12 lbs. per bushel. **25c** lb., **\$2.00** for 10 lbs.

Sheep's Fescue (*Festuca Ovina*). Perennial. Height varies from 6 to 20 inches. Grows naturally on light, dry, sandy soils. Sheep are very fond of it. Weight, about 14 lbs. per bushel. Sow 30 lbs. per acre. **25c** lb., **\$2.00** for 10 lbs.

Fine-Leaved Sheep's Fescue (*Festuca Ovina Tenuifolia*). Perennial. Height varies from 8 to 24 inches. Similar to the Sheep's Fescue mentioned above, except that the leaves are much finer. Sow, if alone, 40 lbs. per acre. Weight about 14 lbs. per bushel. **45c** lb., **\$4.00** for 10 lbs.

Various Leaved Fescue (*Festuca Heterophylla*). A very early hardy perennial, 2 to 3 feet high, thriving best in cold, moist soils. Yields heavily, and is valuable in grass mixtures for permanent meadows. It grows very well in the shade, and is highly recommended for shaded lawns and woodland parks. 40 lbs. to the acre. **40c** lb., **\$3.50** for 10 lbs.

Italian Rye Grass (*Lolium Italicum*). Biennial. Height, 18 to 30 inches. As it is not perennial, it is not adapted for permanent pastures, but for one or two years hay it is unsurpassed. Sow, if alone, 55 lbs. per acre (18 lbs. per bushel.) **15c** lb., **\$1.00** 10 lbs., **\$8.50** 100 lbs.

Grass Seeds—Continued Page 38.

LAWN GRASS SEED SEE PAGES 35 and 36.



Perennial Rye Grass



Meadow Fescue Grass

Timothy (*Phleum Pratense*, Herd's Grass, Cat's-tail Grass). This Grass stands at the head for meadows. Never use less than a peck to the acre, then up to one-half bushel, as to circumstances. Market Price. **Sudan Grass**. (*Andropogon Sorghum*). New, from Sudan. A sweet, heavy-yielding grass, foliage and seed resembles Johnson Grass, but is an annual. Root system is like oats. Seeds from 300 to 400 pounds per acre from Florida to Montana. Absolutely drought proof. Grows 6 to 10 feet high. Stems erect, unbranched, very leafy; and three to four cuttings, 4½ to 6½ tons per acre. Dry, sweet hay that cattle prefer to Cow Pea hay. Ripe for hay cutting in 70 days, and cut every 30 days following. Plant from March to July in 18 to 30 inch rows, 5 pounds to acre, or broadcast 10 pounds. Each seed stalks wonderfully—20 to 40 stalks per seed. A revolution in haymaking. Sweeter than Johnson Grass, makes more hay, and yet an annual with no objectionable root system. Early Cow Peas, and Early Soy Beans and Sudan mix well. Pound, 75c.; 10 Pounds, \$6.00.

CLOVERS

The prices below represent fair market values when this book is printed and are subject to change. Purchasers of large quantities should write for latest prices. Grain bags, holding two bushels, 22c each extra.

Alfalfa, or Lucerne (*Medicago Sativa*). Alfalfa once established is such a profitable crop that every farmer can afford to take great pains to obtain a stand. It requires cutting at least twice the first season, even if not large enough to make hay. Cutting destroys any weeds that may come up in it and gives the Alfalfa a chance. Must be sown at the rate of 20 to 25 lbs. per acre when sown broadcast. Roots from 3 to 15 feet deep, and when established lasts for years. Do not sow on wet, acid or poor soils. We offer American grown seed, raised in the Northwest and West on non-irrigated land. It is as free as possible from noxious weeds. (Bushel 60 lbs.) 25c. lb., \$2.00 10 lbs., \$18.00 per 100 lbs.

Price on Imported Seed and Cheaper Grades Given on Application.

White Dutch Clover (*Trifolium Repens*). Mixed with other grasses for lawn purposes this is very desirable on account of its creeping stems. It spreads rapidly and acts as a binder; very hardy, and remains green throughout the season; it is also excellent for bee food. Sow 6 to 8 lbs. per acre. 45c. lb., \$4.25 for 10 lbs.

Alisike or Swedish (*Trifolium Hybridum*). An excellent variety of luxuriant growth and very sweet; valuable for bee pastureage or ensilage. Sow 6 to 8 lbs. per acre. 25c. lb., \$2.00 for 10 lbs., \$18.00 per 100 lbs.

Sapling, or Mammoth Clover, English Clover, Cow Grass, Perennial Red Clover (*Trifolium Pratense Perenne*). It is valuable when sown with other grasses, for mixed hay, as it ripens later than the common Red Clover. Sow 10 to 12 lbs. per acre. 30c. lb., \$4.75 25 lbs. (bu.)

Red Clover (*Trifolium Pratense*). In ordering, always state quality desired, otherwise will send the best. Sow 8 to 10 lbs. per acre. Market Price.

Bokhara Clover (*Melilotus Alba*, Sweet Clover). A rapid-growing, white-flowered sort; a good bee food. Sow 10 to 15 pounds per acre. 25c. lb., \$2.00 for 10 lbs., \$17.50 per 100 lbs.

Bokhara Clover, Yellow Flowered (*Melilotus Officinalis*). Biennial. It makes good hay, excellent pasture for cattle and sheep. Will grow in any kind of soil, and being deep rooted remains green in the driest seasons. Advocated by Department of Agriculture as an advance crop for inoculating the soil before sowing alfalfa. 25c. lb., \$2.00 for 10 lbs., \$17.50 per 100 lbs.

Scarlet, Crimson or Carnation Clover (*Trifolium Incarnatum*). Annual. Time of flowering, June. Height, 1½ to 2 feet. Where a single crop is wanted, this is one of the best Clovers that can be grown; it makes good hay and is excellent for feeding green, the yield being immense, and after cutting it at once commences to grow again, and continues until freezing weather, but being an annual, dies after maturing its seed. Should be sown in August to October, also early spring; 10 to 15 lbs. per acre. 20c. lb., \$1.75 10 lbs., \$15.00 per 100 lbs.

Crimson
or
Scarlet
Clover



Postage Must be Added If Wanted by Mail. See Postal Rates, Second Page of Cover.



MILLETS

The prices below represent fair market values when this book is printed and are subject to change. Purchasers of large quantities should write for latest prices. Grain bags, holding two bushels, **22c** each extra.

Postage Must be Added If Wanted by Mail. See Postal Rates, Second Page of Cover.

Tennessee, or German Golden Millet. Far superior to Western grown. Will grow in any climate or soil, and make a large yield of most nutritious feed. Prepare the ground well before sowing; sow not less than 50 pounds per acre, at any time between May 1st and June 15th. Cover with a single stroke of a light harrow, or roll without harrowing, or it may be sown with a wheat drill, barely covering the seed. Cut the crop while in bloom, before the seed hardens. We have secured a full supply of Tennessee, or German Golden Millet (cultivated seed), which we know will give the best satisfaction. Sow one bushel per acre. **50c** pk., **\$1.65** per bushel (50 lbs.).

Northern or Western Grown Millet. **45c** pk., **\$1.40** per bu. (50 lbs.).

Hungarian Millet (Grass). A valuable forage plant of the Millet family, but not so coarse. Sown and cultivated same as Millet. Quite a favorite with stockmen. It is of fine growth, and makes an excellent hay. Sow 1 bushel per acre. **45c** pk., **\$1.40** per bushel (50 lbs.).

Hog Millet. Known also as Broom Corn Millet. The name Hog Millet has been applied to emphasize the use to which it is now being put as a valuable food for hogs; also good food for birds and poultry. Sow one bushel per acre. **40c** pk. (12 1/2 lbs.); **\$1.50** bu. (50 lbs.).

Pearl Millet or "Pennisetaria." This quick-growing forage plant has been long known under the name of East India, or "Cat-Tail Millet." When planted and cultivated like corn, the plants attain a height of eight to ten feet, with slender stalks and slender long-bladed leaves. When sown broadcast or drilled in rows, 12 to 18 inches apart, 8 to 10 pounds per acre should be used. Per lb. **15c.**, **\$1.20** 10 lbs., **\$10.00** 100 lbs.

Japanese Barnyard Millet. Sometimes called Billion Dollar Grass. It has proven an enormous yielder in all sections of the U. S. producing hay and fodder of most excellent quality and growing on any soil. It grows to a height of 6 to 8 feet and produces from 12 to 30 tons per acre. Cattle and horses eat it greedily and fatten rapidly. It is a remarkable stooler and should not be sown very thickly—10 to 12 pounds per acre broadcast being sufficient. In drills 3 pounds per acre. **15c** lb., **90c** 10 lbs., **\$7.50** 100 lbs.

Tennessee Millet

MISCELLANEOUS FARM SEEDS

The prices quoted are subject to market fluctuations. Should any article seem high, or when customers are in need of large quantities, we will be pleased to submit samples and quote, on application, the lowest prices that the market will justify at the time. Please state quantities when writing for prices.

Postage Must be Added If Wanted by Mail. See Postal Rates, Second Page of Cover.

Sorghum or Sugar Cane

Plant in drills 3/4 to one bushel; broadcast, 1 to 1 1/2 bushels to the acre. Sorghum is being used extensively as a green food for cattle, horses and mules. (Bushel 50 lbs.) Price changes.

Early Orange Cane. A strong grower; much more juicy than any other variety. The stalk is heavier and a little later than the Amber. **6c** lb., **45c** 10 lbs., **\$1.60** bushel.

Early Amber Cane. This popular and well known variety is the earliest and makes the finest quality of both sugar and syrup. **6c** lb., **45c** 10 lbs., **\$1.60** bushel.

Broom Corn

Improved Evergreen. The best variety for general cultivation on account of the color and quality of brush. Ripens early; grows about 8 to 10 feet high; brush of good length, fine and straight, and always of green appearance when ripe. Our stock is select. Plant 8 to 10 quarts to the acre. **\$3.00** bushel (46 lbs.).

Kaffir Corn

A Great Fodder Crop. The Finest Grain for Poultry and Pigeons.

White Kaffir Corn. The stalks keep green and are brittle and juicy, making excellent fodder, either green or dried, which is highly relished by cattle, horses and mules. The seed heads form at the top of each stalk, and as soon as these show the grain well, the joints next below the top send up shoots, which yield the second seed heads. For the grain sow in rows 3 feet apart; 3 to 5 lbs. of seed to the acre. For fodder sow 25 to 50 lbs., either broadcast or in drills. **5c** lb., **35c** for 10 lbs., **\$2.00** per 100 lbs.

Sunflower

Mammoth Russian. Immense yielder—125 bushels of seed to the acre has been grown at less expense than corn. Very highly recommended for poultry. Best egg-producing food known. Good feed for horses as well. May be grown to great advantage in waste ground, from early spring to the latter part of July. Plant 10 to 12 lbs. per acre. **10c** lb., **75c** 10 lbs., **\$6.00** 100 lbs.

Teosinte (Reane Luxurians). The stalk can be cut several times during the season. Should not be planted until the soil is perfectly warm in spring. Requires about 4 lbs. of seed per acre. **85c** 1b., **\$4.00** 5 lbs.

Hemp Seed. We will be pleased to quote market prices upon application. Sow at rate of 3/4 to 1 bushel per acre.

Flax Seed. Northwestern. Sow at rate of 3/4 to 1 bushel per acre. Market price.

Vetches or Tares

This has been used in Europe for many years as a stock food and green manuring or cover crop. It does best if sown with rye, the latter gives it support and thus ensures enormous crops. It makes an ideal hay and it is a pity that every American farmer does not use it. It fertilizes the ground without further trouble or cost, on account of the free nitrogen it gathers from the air. It produces a peculiar vine plant with very narrow foliage and elongated flowers of pinkish white in clusters. The height when supported is frequently 4 feet.

Sand, Hairy, or Winter Vetch (Vicia Villosa.) Our stock of this is the true type, which will absolutely live throughout the winter, and buyers should beware when buying that they procure the right article, which is a small round black seed; this is far superior to Crimson Clover, as it never winter-kills. Sow from August 1st to October 1st, broadcast, 1 to 1 1/2 bushels per acre, to which we suggest adding half a bushel of winter rye or wheat. In the spring it can be plowed in as green manure, or when in flower cut for hay. All stock relish it keenly. **20c** lb., **\$1.50** 10 lbs., **\$7.50** per bushel of 60 lbs.

Spring Vetch (Vicia Sativa.) The seed of this is larger and of a brownish gray color. It is not hardy and must, therefore, be sown in the spring during May or June, 1 to 2 bushels per acre if broadcast and 1 bushel if in drills, with either spring wheat, spring rye or oats for support. It possesses very much the same desirable features as the winter vetch. **10c** lb., 10 lbs. **75c.**, **\$3.00** per bushel of 60 lbs.

Miscellaneous Farm Seeds—Continued

Prices of All Farm Seeds Are Subject to Market Changes.



Photograph of a Field of Essex Rape

at a season when it is most needed. It does well sown rapidly. If the soil is rich and clean, sow broadcast; if not so clean, sow in drills and cultivate as for corn. When sown broadcast, use 5 to 6 pounds, and if in

Dwarf Essex Rape

A forage plant of highest value. It can be sown in April for an early crop, and for fall crop in July, August and September, and still later further South. In a few weeks from the time of sowing, sheep, hogs or cattle can be turned on it. Under favorable conditions Rape is ready for pasturing sheep or cattle within six weeks from time of sowing, and on an average one acre will carry 12 to 15 sheep six weeks to two months. When on the Rape they should at all times have access to salt. Pigs and cattle are also very fond of it. Rape has a high feeding value. It is excellent for fattening sheep and swine, produces an abundant flow of milk in cows, and is the ideal pasture for weaning lambs. Its value as sheep pasture has been demonstrated in every State in the Union, and it is recommended by authorities everywhere as of superior value for hogs, furnishing the finest pasture, or can be fed after cutting. Rape has strong growing roots which penetrate the ground for a considerable depth. A rich, loamy soil is preferable, but it does well on sandy or stiff clays, and is excellent for sowing after a crop of wheat has been taken off or when corn has been worked the last time. The plant is a rank grower and should have heavy manuring. Sow the seed by the end of June and the crop can be ready to feed with oats. After oats are cut the Rape grows in drills, 2 to 3 pounds to the acre.

15c lb., \$1.00 10 lbs., \$8.00 100 lbs.

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

Cow Peas

(The Great Land Renovator.)

At the time of going to press the market for Cow Peas and Soja Beans is such that it is impossible to name a satisfactory firm price. We will quote special prices on application, or all orders accompanied with the money, will be filled at the lowest market price, upon receipt. The value as a fertilizing crop exceeds that of clover, for, in addition to being a larger nitrogen gatherer than the clover, they draw from the subsoil to the surface large amounts of potash and phosphoric acid, thus putting the soil in most excellent condition for following crops. The feeding value of Cow Peas, either green fed as hay or preserved as ensilage, is very high, being considerably above that of Red Clover. The yield of green vines per acre runs ordinarily from 5 to 15 tons.

Sow 1 $\frac{1}{4}$ to 1 $\frac{3}{4}$ bushels per acre, on land thoroughly pulverized and disc or plow with a cultivator or double shovel plow. If wanted for hay, cut when peas are forming, cure as clover. If peas are for fertilizer, sow same quantity after same preparation as for hay; turn under when peas are in bloom. If farmers will first roll and disc peas they will turn under much easier and be more satisfactory. For a fertilizer, especially to be followed by wheat or corn, they are simply the best. Bear in mind that the Southern Cow Peas belong to the Bean family, therefore must not be sown until the ground is thoroughly warm and all danger from frost is past.

Early Black. Matures quickly, best variety for the extreme northern sections of the country.

Whip-Poor-Will. An early variety, tall, upright, medium yield of vines, large yield of peas, for which they are particularly grown. Highly recommended for "hogging down."

Clay. The leading variety in the South. Large yield of vines and peas, but require longer season to mature than the former-named varieties.

New Era. Seed small, dun colored; earlier than Whip-Poor-Will, but more trailing in habit. A great favorite in many places.

Mixed Cow Peas. These are splendidly adapted for those who merely wish same for feeding purposes, and being mixed, we are able to offer them at a lower price.

Will Quote Prices on Application.

Soja or Soy Beans

This very valuable farm plant is not used as extensively as it should be. It enriches the ground in which it is planted by the free nitrogen gathered from the air and which is deposited in the ground by the roots, leaving it in ideal condition and rich in nitrogen for the next crop. Fodder is relished in either green or dry form by cattle and dairy cows. Excellent to combine as feed with other hay or corn. The seed when harvested and ground into meal gives milk

a very rich flavor and is fed with great advantage to milch cows mixed with bran or any other soft feed.

It is one of the most nutritious of all vegetable products. It will produce a crop of 20 to 30 bushels per acre, and is as easily grown as other beans. For pasturing or feeding as green fodder it is very valuable, and nearly equal to clover for fertilizing. Sow half a bushel per acre broadcast, or plant in drills 3 feet apart, and 1 to 1 $\frac{1}{2}$ feet between the plants, dropping 2 or 3 beans in each hill, which will require one gallon per acre.

If wanted for Silo, it will be ready for harvest about the first of September or earlier; if fed in this condition it is cut anywhere from the time of flowering until the pods are well formed.

Will Quote Prices on Application.

Canada Field Peas

These are used for various purposes, chief among them being a very early green food; when used this way they are sown with oats about April 1st at the rate of 1 $\frac{1}{2}$ bushel of Peas and 1 $\frac{1}{2}$ bushel of Oats to the acre either drilled or broadcasted. The oats is intended as a support for the peas. They are cut just after the peas flower and fed green; sheep, hogs and cattle relish them keenly. They may be sown successively up to July if one has the available land. Peas may also be sown alone at the rate of 3 bushels per acre and furnish excellent pea hay; horses like it very much when properly cured, as does all other stock. For plowing under as green manure, they add a vast amount of nitrogen to the soil and succeeding crops sown there the same year or even later, particularly wheat, are wonderfully benefited by producing a more luxuriant growth and larger yield. The dried peas are extensively fed to pigeons, while when ground as meal is an excellent addition to the regular soft food of cows, sheep and horses. Pk., 60c; \$2.25 per bushel (60 lbs.)

—NITRAGIN—

Is a High Bred Nitrogen-Gathering Bacteria For

Clovers, Vetches, Cow Peas, Soja Beans, Peas, Beans, Sweet Peas

and all other legumes which are increased in weight, volume and feed value

Complete **NITRAGIN** and Inoculations Book on **NITRAGIN** — **FREE**

See page 86 for full particulars

MISCELLANEOUS FARM SEEDS—Continued

The prices quoted are subject to market fluctuations. Should any article seem high, or when customers are in need of large quantities, we will be pleased to submit samples and quote, on application, the lowest prices that the market will justify at the time. Please state quantities when writing for prices.



Northern Grown Seed Corn

Prices Subject to Market Changes. Seamless Bags Holding Two Bushels, 22c Each Extra.

Our seed corn has been grown for us by specialists in Ohio and Indiana for seed, and will be found of the highest grade as to quality and germinating power. Sow eight quarts to the acre. Prices quoted by express or freight, not prepaid.

McCullough's Early Prolific. The most prolific white corn. Each stalk bears from two to five ears, average length of ears 8 1/2 inches. Stalks range in height from 9 to 12 ft., according to season and fertility of soil. The corn is consequently ideal for ensilage and will be planted largely for that purpose. It matures in 100 days and yielded in 1912, 150 bushels per acre, and no fertilizer of any kind was applied to the land. The year before the same field yielded 50 bushels of Reid's Yellow Dent to the acre. In every test, the yield of McCullough's Early Prolific was at least twice that of the old standard varieties. Supply limited—advise placing orders early. Price—\$1.00 pk., \$1.75 per 1/2 bushel, \$3.00 per bushel.

McCullough's Champion White Dent. The best White Dent Corn. If planted early, say May 10 to 20, it will come nearer making a crop of corn without rain than any other known variety. Makes a wonderful growth as far south as Georgia. In fact, it will mature in any corn country. It grows a strong, vigorous, deep-rooted stalk, stands up well, and in strong land and good season will make from 100 to 125 bushels per acre. Ears 10 to 12 inches long, well filled at tip and butt. 60c pk., (14 lbs.); \$1.85 per bushel (56 lbs.).

Peerless. (White.) Will mature in 90 days, therefore may be sown later than any other variety, and still there is no danger of it being damaged by frost. Produces generally two large ears to the stalk and in good land will yield one hundred bushels to the acre. 55c pk., (14 lbs.); \$1.90 bushel (56 lbs.).

Silver Mine. One of the best yielding White Dent Corns. Cylindrical shape, tapering a little at the tip end; 18 to 20 rows; kernels deep and cobs small. A fine shelling and high yielding variety. 50c pk., (14 lbs.); \$1.75 bushel, (56 lbs.).

Reld's Yellow Dent. One of the best varieties of yellow corn grown. Ear medium in size, remarkably uniform, and of a bright yellow color, with solid, deep grain and small, red cob. Has from 18 to 24 rows of kernels on the cob, 50 to 60 grains in the row, and is well filled over the ends, and especially the butt, leaving a small shank, which makes it a great favorite with huskers. Best shredding sort, as it shatters the least of any by actual test. 60c pk., \$2.00 bu. (56 lbs.).

Oats

Prices on Application.

Broadcast 2 to 3 bushels to the acre. We handle enormous quantities of these and trace the demand to the excellent quality we handle; they are grown especially for us in cool regions, where they grow to perfection.

Red Rustproof. These are the standard oats of the Southern States, yielding large crops when all other sorts were destroyed by rust. It is a large, heavy, reddish-looking berry.

Winter Turf. Perfectly hardy in the Southern and Middle States. Yields on good land, from 50 to 70 bushels to the acre of fine, heavy grain, weighing from 35 to 50 pounds to the measured bushel.

White, Black and Mixed. Market price.

Barley

Sow 1 1/2 to 2 bushels if drilled; 2 to 2 1/2 bushels broadcast.

Spring Barley. Market Price.

Beardless Barley. Market Price.

Speltz or Emmer

This grain resembles wheat but is a much larger yielder, producing frequently as high as 80 bushels of grain per acre, and that on the poorest land. The hay cut green is desirable for horse or cattle feed, while the straw after thrashing is equal to the best wheat.

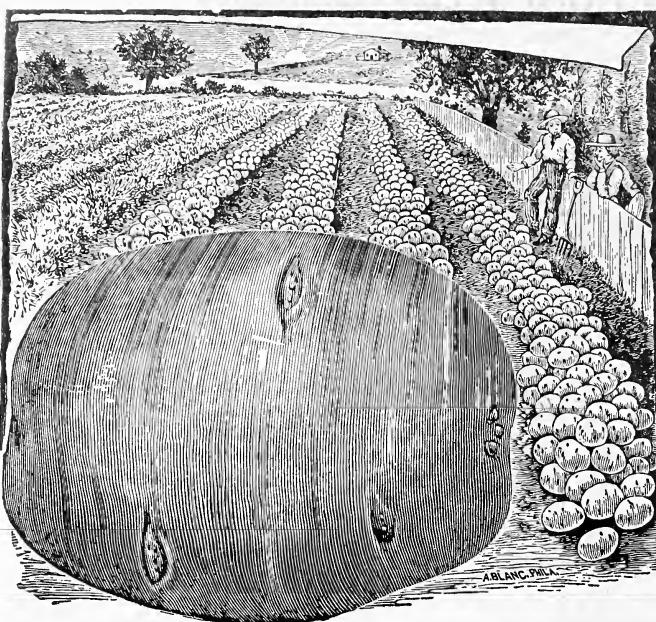
The heads are somewhat similar to two-rowed barley. For fattening cattle, poultry, horses, sheep, pigs, etc., it is claimed to be ahead of any other grains. Cultivation similar to wheat or oats. Sow at the rate of 50 to 60 lbs. per acre. 5c lb., \$1.50 for 50 lbs., \$2.75 for 100 lbs.

Buckwheat

Should be sown about the middle of June broadcast, using from 3/4 to 1 bushel to the acre.

Japanese. This superior variety is earlier and more prolific and yields double the weight per acre of other sorts. The grains are nearly twice as large as those of Silver Hull, and of fine color. 40c pk., \$1.25 bu. (50 lbs.).

Silver Hull. The grain is of light gray color. 40c pk., \$1.30 bu. (50 lbs.).



Carmen No. 3

Early Ohio (Red River Stock.) The Early Ohio is fully two weeks ahead of the Early Rose, and is a general favorite with potato growers and market-man alike and is the most profitable Potato they can possibly grow. The sprouts are very strong, the vines grow erect and are easy to cultivate. Maturing early, it brings the highest prices, and the land can be used for another crop after it; does well on any soil suitable for Potatoes. The tubers grow compact in the hill, are easily dug, with very few small ones—nearly every Potato is of marketable size; has few eyes, which are even with the surface. With heavy manuring, close planting and good culture, a very large and profitable crop can be expected. Cooks dry and mealy.

Early Rose. This variety is too well known to need a description. After many years it is as popular as ever. The leading variety for earliness and productiveness.

Bovee. Earlier than the Early Rose and a much more productive variety. The vine is dwarf and stocky, skin pink or flesh color, presenting a fine appearance, and the quality is all that could be desired.

Beauty of Hebron. This is an old-time favorite which matures early; tubers have red and white skin, grow to a good size and are of excellent quality. It is also a very productive variety and a remarkably good keeper.

Irish Cobbler. One of the first varieties of Potatoes to be ready for market, and therefore will command a good price. The skin is creamy-white, sometimes netted, which is an indication of good quality; eyes are strong, well-developed, and but slightly indented. The flesh is white and of fine flavor.

Carmen No. 3. Enormously prolific, averaging nearly a pound apiece; very uniform in shape, white skinned, few and shallow eyes; flesh snow-white and of exceptionally fine cooking qualities.

MANGEL WURZEL, SUGAR BEET, RUTA BAGA, PUMPKIN, ETC., See Garden Seeds

Miscellaneous Bird and Sundry Seeds

Per lb.	Per lb.	Per lb.	
Black Locust.....	40c	Flax Seed (crushed).....	10c
Honey Locust.....	40c	Hemp Seed (3 lbs. 25c).....	10c
Canary Seed (2 lbs. 25c).....	15c	Lettuce Seed, for birds.....	20c
Mixed Bird Seed (3 lbs. 25c).....	10c	Maw or Poppy Seed.....	15c
Celery Seed, for flavoring.....	30c	Millet, for birds.....	5c
Cuttle Bone (1 oz. 5c).....	40c	Mustard Seed, white, for pick-les.....	15c
Flax Seed (4 lbs. 25c).....	10c		

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

Selected Seed Potatoes

We select our Seed Potatoes in the best northern districts and expressly for seed purposes. As prices are liable to vary, we shall be pleased to give quotations on application.

They are put up in barrels of about 2 1/2 bushels each. No charge for barrels. Bags 10c each.

Culture.—Any good well-drained, fibrous loam will produce Potatoes under right climatic conditions. For early Potatoes, which mature in 8 to 10 weeks from planting, the soil must be particularly rich. A rich clover sod, manured and broken the year before and planted to corn, beans, peas, oats, etc., is in best shape for giving a good yield of nice clean Potatoes. Stable manure had better be applied to the land the year before.

Potatoes are planted early and late. Cut 2 to 3 eyes to a piece. Plant in rows or hills about 3 feet apart and about 15 to 18 inches apart in the hills or rows. Cultivate thoroughly. One peck will plant about 100 hills, 10 to 12 bushels will plant an acre.

Early Six Weeks. Extra early, oblong in shape; flesh solid; cooks dry and mealy.

Triumph. Extra early; fine bright red skin; white flesh.

Chicago Market. Very popular, early, good quality and yields well.

Burbank's Seedling. A white-skinned, medium early variety, with few eyes; flesh fine-grained and good flavor.

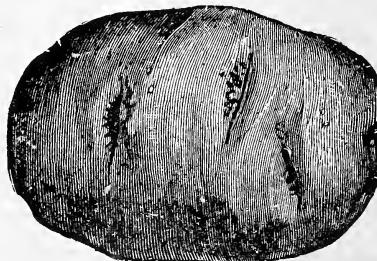
White Star. A medium early variety of fine quality and appearance; large, oblong, uniform-sized tubers, remarkably productive.

Rural New Yorker. A valuable variety of large size; very smooth and a great copper; in quality unexcelled. It is the best late long keeper, and we recommend it highly.

White Elephant. Late, large, enormously productive, and of excellent flavor

Seed Sweet Potatoes

Yellow and Red Jersey, Red Bermuda and Southern Queen. Write for prices. Ready for shipment about April 1. For Plants, see page 34.



Early Ohio



McCullough's Selected Flower Seeds

Every year we carefully revise our list of flower seeds, add a number of splendid new sorts and discard all inferior varieties. Our collection will be found to contain everything really desirable. The latest and best in the floral world. Our stock of seeds is of the highest possible quality.

ANNUALS attain full growth from seed, flower and die in one year.

BIENNIALS grow from seed one year, bloom and die the next, though some varieties bloom the first season when sown early.

PERENNIALS last for several years, blooming annually after the first season, though some varieties will bloom the first season if sown early.

Discount on Packet Flower Seeds. For 25 Cents select 6 Five-cent, or 3 Ten-cent pkts. For 50 Cents select Packets to the amount of 65 Cents. For \$1.00 select Packets to the amount of \$1.30. For \$2.00 select Packets to the amount of \$2.65. For \$3.00 select Packets to the amount of \$4.00.

PLEASE ORDER BY NUMBER. WE PAY THE POSTAGE.



Agrostemma.

ADLUMIA. (Mountain Fringe, Allegheny Vine.)

5 **Cirrhosa.** A graceful, hardy, biennial climber, but, as it resows itself year after year, it might be considered perennial. The feathery foliage closely resembles that of the Maiden-hair Fern. The flowers are tube-shaped, flesh-colored, somewhat like the Bleeding Heart, and completely cover the plant. For covering trellises, stumps of trees, etc., it is very desirable. Flowers the first year from seed..... 5c pkt.

AGERATUM. (Floss Flower.) One of the very best

bedding plants, being literally a sheet of bloom from early summer till frost. Unlike many bedding plants, their flowers are not liable to be spoiled by rain, nor do the colors fade out. The various blue varieties are without doubt the most satisfactory bedding plants of this color for our trying climate. Easily raised from seed, which is usually started in a hotbed or window and transferred to the open ground in May. Can also be sown outdoors in May.

6 **Blue Perfection.** Dwarf compact growth, large dark-blue flowers: valuable for borders and bedding 5c pkt.

7 **Little Dorrit.** Azure blue, very floriferous, $\frac{3}{4}$ ft. 5c pkt.

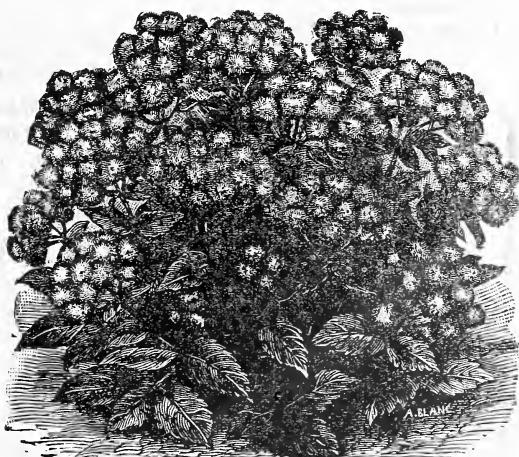
8 **Album.** White, profuse bloomer, $1\frac{1}{2}$ ft. 5c pkt.

AGROSTEMMA. (Rose of Heaven.) An attractive, free-flowering, hardy perennial of easy culture, producing flowers on long slender stems like a single pink. Blooms the first season. Fine for cutting; 1 to 2 feet.

9 **Mixed Varieties** 5c pkt.

Allegheny Vine.—(See Adlumia.)

African Golden Daisy.—(See Dimorphotheca Aurantiaca.)



Ageratum—Blue Perfection.

ALYSSUM.

Pretty little plants for beds, vases, baskets, edgings or rockwork, blooming profusely all summer; useful also for winter-flowering. Very sweetly scented. Hardy annual.

10 **Little Gem, or Carpet of Snow.** Of dwarf, compact habit, 4 to 6 inches in height. It begins to bloom when quite small, and the plants are a solid mass of white from spring to late in autumn, and undoubtedly the best white-flowering edging plant in the list. (See cut.) 50 cts. per oz. 5c pkt.

11 **Sweet Alyssum.** Of trailing habit; flowers white. 25 cts. per oz. 5c pkt.

AMARANTHUS. Brilliant-foliaged annuals, growing from 3 to 5 feet high, some of the varieties bearing curious racemes of flowers. All are useful in borders of tall plants or for the center of large beds. They thrive best in a hot, sunny location, not too rich soil, and given sufficient room to develop their full beauty.

12 **Caudatus.** (Love Lies Bleeding.) Blood-red; drooping 5c pkt.

13 **Tricolor Splendens.** (Joseph's Coat.) Leaves red, yellow and green. An improvement on the old sort, of more brilliant coloring 5c pkt.

AMMOBIUM. One of the hardiest of everlastings, valuable for forming winter bouquets, in connection with grasses and other everlastings. The flowers should be gathered before fully opened. Hardy annual.

14 **Alatum Grandiflorum.** White, large flower... 5c pkt.

AMPELOPSIS. A hardy perennial climber, with olive green leaves, which turn to scarlet in the autumn. The best and most popular climber for covering brick or stone walls.

15 **Veitchii.** (Boston or Japanese Ivy)... 10c pkt.

ARCTOTIS. (African Daisy.)

16 **Grandis.** A remarkably handsome annual from Southwest Africa. It forms much-branched bushes 2 to 3 feet high; its flowers are large and showy, being pure white on the upper surface, the reverse of petals pale lilac-blue. Daisy-shaped flowers of all kinds are always popular with flower lovers, and in the Arctotis we have one of the very best. It is easily grown from seed, and may be started in hot-bed, in the house, or in the open ground, and the plants may be expected to come into bloom early in July and continue until quite hard frost, and will be a mass of bloom long after the more tender flowers of the garden have passed away. It delights in a sunny situation. As a cut flower it is especially valuable, the blooms, lasting a week or ten days in water, and if undeveloped buds are cut and placed in a sunny window, every one will open and produce as fine flowers as though left on the plant 10c pkt.

ASPARAGUS.

17 **Plumosus Nanus.** (Asparagus Fern.) This graceful climbing Asparagus has fine foliage, and will last for weeks after being cut. It is an excellent house plant 10c pkt.

ANTIRRHINUM, DWARF.

28 **Queen of the North.** Pure white 10c pkt.

29 **Golden Queen.** Pure yellow 10c pkt.

30 **Defiance.** New. Fiery scarlet 10c pkt.

31 **Dwarf Sorts Mixed** 5c pkt.

18 **Sprengeri.** (Emerald Feather.) One of the best plants to grow in baskets, for greenhouse or for outdoors in the summer. The fronds frequently grow 4 feet long, and are now considered indispensable in all fine decorations; grows readily from seed..... 10c pkt.

ANTIRRHINUM.

(Snapdragon.)

The Snapdragon is one of our finest perennials. If planted early will flower the first year as an annual. The newer sorts are flowers of great variety of colors and markings and brilliancy, making rich spikes, beautiful for cutting. Sow seed in the open ground, transplanting to one foot apart each way. They will bloom in July and August.

Giant-Flowered-Tall. Flowers nearly double the size of the older sorts.

19 **Giant Queen Victoria.** Very large; fine white. 10c pkt.

20 **Giant Delilah.** White and carmine... 10c pkt.

21 **Giant Firefly.** Scarlet and white.... 10c pkt.

22 **Giant Purple King.** A new variety with immense deep glowing purple flowers... 10c pkt.

23 **Giant Venus.** Beautiful light rose, white throat 10c pkt.

24 **Giant Romeo.** Beautiful dark rose.... 10c pkt.

25 **Giant Yellow Shades** 10c pkt.

26 **Giant Scarlet and Crimson** 10c pkt.

27 **Giant Mixed Colors.** Tall growing.... 5c pkt.

Blooms profusely; about 12 inches high.

10c pkt.

10c pkt.

10c pkt.

5c pkt.

AQUILEGIA, OR COLUMBINE.

Popular free-flowering plants, blooming profusely through the spring and early summer. For planting in permanent borders or along the edges of shrubbery this old-fashioned favorite is one of the best of all hardy plants. Hardy perennial, 1 to 3 feet.

32 **Alba Flora Flena.** Beautiful double pure white variety, 1½ feet 5c pkt.

33 **Californica Hybrida.** Large yellow flowers, with dark orange spurs 10c pkt.

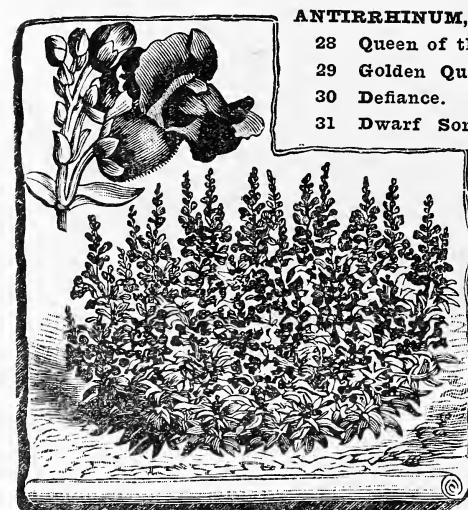
34 **Coerulea.** (Rocky Mountain Columbine.) Sepals deep blue, petals white; extra fine, 2 feet.... 10c pkt.

35 **Coerulea Hybrida.** Large flowered long spur hybrids. 10c pkt.

36 **Long-Spurred "Rose Queen".** A beautiful variety, producing in great profusion very graceful, large-flowered, long-spurred flowers, shading from light pink to dark rose, with white center and yellow anthers.... 10c pkt.

37 **Double Varieties Mixed.** Very choice..... 5c pkt.

38 **Single Varieties Mixed.** The best sorts..... 5c pkt.



Antirrhinum—Dwarf.



Alyssum—Little Gem.

McCULLOUGH'S SELECTED ASTERS.



MISCELLANEOUS ASTERS.

39 **McCullough's "Premier" Asters.** This mixture is composed of the finest large flowering double varieties, which, for size of flower, excellence of color and habit can not be surpassed. -Grown by specialists in Europe and America, each variety imported separately, and mixed by ourselves; the finest ever offered 10c pkt.

40 **China Asters, Mixed.** A general mixture of fine sorts and colors 5c pkt.

41 **Pink Beauty.** A magnificent variety of strong, free, upright growth, blooming from early in August until well on in September, with long, strong stems. Chrysanthemum shape, the inner petals incurved, outer reflexed; color a soft, delicate, blush pink; a shade that is always in demand for cutting 10c pkt.

42 **Daybreak.** Of symmetrical growth; attains a height of 18 inches, and produces during August perfect globe-shaped flowers, of a delicate pink tint 10c pkt.

43 **Lavender Gem.** One of the most beautiful Asters. Of comet type, with large, artistic, loosely-arranged flowers of the most charming shade of lavender imaginable 10c pkt.

44 **Purity.** Identical in every way to Daybreak, but of pure glistening white 10c pkt.

45 **Snowdrift.** A most valuable variety, coming into flower in July, with superb plumy snow-white flowers of the Ostrich feather type. 10c pkt.

46 **Royal Purple.** The flowers are large with full centers well covered, petals flat and incurved. Color a rich shade of Royal Purple. This variety is distinct in growth from the branching Asters. The side stems start from the main stem close to the ground, and not in side shoots from the main stem 10c pkt.

47 **Giant Branching Comet.** Magnificent flowers on stems over a foot long; flowers extremely loose and graceful; grand type for cutting. Mixed colors 10c pkt.

CREGO'S GIANT ASTERS. A magnificent strain, bearing immense plumy flowers.

48 **Crego's Giant, White** 10c pkt.

49 **Crego's Giant, Pink** 10c pkt.

QUEEN OF THE MARKET. The earliest flowering first-class Aster, coming into flower in July, or fully three weeks in advance of the general run; of branching habit; flowers of good size and borne on long stems, making them exceeding valuable for cutting; excellent for growing under glass; 1 foot.

Per pkt.

50 **Bright Rose** 5c 53 **Pink, Light** 5c
 51 **Lavender** 5c 54 **Purple** 5c
 52 **White** 5c 55 **Mixed Colors** .. 5c

Per pkt.

50 Bright Rose 5c
 51 Lavender 5c
 52 White 5c

53 Pink, Light 5c
 54 Purple 5c
 55 Mixed Colors .. 5c

50 Scarlet 10c
 51 White 10c
 52 Finest Mixed. All colors 6c

53 White 10c
 54 Finest Mixed. All colors 6c

55 Mixed Colors .. 5c

56 Rose 10c
 57 Shell Pink 10c
 58 Pure White .. 10c

59 Rose 10c
 60 Shell Pink 10c
 61 Pure White .. 10c

62 Finest Mixed. Containing many more colors than mentioned above 10c pkt.

SEMPLE'S BRANCHING ASTERS. This superb strain is of American origin, and is especially adapted to our climatic conditions.

The plants form strong, branching bushes, 2 to 2½ feet high, bearing on long, strong stems their handsome Chrysanthemum-like flowers, which, under ordinary cultivation, average 4 inches across. The form of the flowers, together with the length of the stems, places them at the head of Asters for cutting. They come into bloom from two to three weeks after the average type, usually being at their best during September.

Per pkt.

56 Azure Blue	10c	59 Rose Pink	10c
57 Pale Lavender	10c	60 Shell Pink	10c
58 Deep Purple	10c	61 Pure White	10c
62 Finest Mixed. Containing many more colors than mentioned above	.....	10c	pkt.

CARLSON or INVINCIBLE ASTERS. The early flowering branching Aster. A selection of the Peony flowered type. The flowers are large and firm; the stems long and stiff, and the colors decided and pleasing. The plants grow about 24 inches high and come in bloom about ten days before the Semple's Branching Asters.

Per pkt.

63 Lavender	10c	66 Violet Blue	10c
64 Daybreak Pink	10c	67 White	10c
65 Rose Pink	10c	68 Mixed. All colors.	10c

EARLY HOHENZOLLERN ASTERS. The finest type of the Giant Comet, or Ostrich Feather Asters. Much larger than the Giant Comet, the petals longer, more curled and twisted, and produced in greater abundance. Borne on long stems.

Per pkt.

69 Brilliant Rose	10c	72 Pink	10c
70 Crimson	10c	73 White	10c
71 Light Blue	10c	74 Mixed. All colors.	10c

IMPROVED VICTORIA ASTERS. An unrivaled and favorite class. The flowers are of great size, measuring four inches and over across, beautifully imbricated and perfect in form, of great richness and variety of color; from twenty to forty on a plant; height, 1½ ft.

Per pkt.

75 Crimson	10c	79 Scarlet	10c
76 Dark Blue	10c	80 White	10c
77 Light Blue	10c	81 Finest Mixed. All colors	6c
78 Rose	10c	.....	6c

BALSAMS.

(Lady Slipper, or Touch-Me-Not.)

One of the oldest and best known summer-blooming annuals, of easy culture. Desirable for garden or pot culture. The soil should be of the richest and best quality. Set them about 15 inches apart, and give them plenty of manure-water. Tender annuals; 2 feet.



Brachycome.

Bachelor's Button.**Blue-Bottle or Ragged Sailor.**
(See Cyanus.)**Balsam Apple and Pear.** (See Momordica.)**Balloon Vine.** (See Cardiospermum.)**Black-Eyed Susan.** (See Thunbergia.)

BEGONIAS.

(Everblooming Bedding Varieties.)

The following are varieties of Begonia Semperflorens, and take rank as bedding plants with Geraniums and Coleus, doing equally well in full sunlight, and surpassing both in positions partially or wholly in shade.

90 **Gracilis Luminosa.** This differs from Begonia Gracilis in the lustrous reddish brown color of the foliage, while the flowers measuring 1 to 1½ in. across, are of a fiery dark scarlet. It is very free flowering, and where massed produces a splendid effect. No better sort for groups and bedding has yet been seen. 10c pkt.

91 **Vernon.** Bright orange carmine flowers, deep red foliage 10c pkt.

92 **Vernon Grandiflora.** A large-flowering form of the above, with which it is identical in growth, floriferousness and color. The flower is nearly twice the size of the type. 15c pkt.

93 **Semperflorens, Single Mixed.** This mixture contains all the best varieties, ranging in color from pure white to the deepest crimson; splendid. 10c pkt.

BRACHYCOME.

(Swan River Daisy.)

Free-flowering, dwarf-growing plants, covered during the greater part of the summer with a profusion of pretty Cineraria-like flowers. Suitable for edgings and small beds, or pot culture. Half-hardy annual; 1 foot.

94 **Mixed.** Light blue and white 5c pkt.

BROWALLIA.

95 Free-flowering plants, covered with bright blue flowers, which continue to bloom during the summer and autumn. Sow during April and May, in good light, rich soil. Half-hardy annual. Mixed. 5c pkt.

Bellis—
Double Daisy.

BRYONOPSIS.

A beautiful annual climber of the gourd species, with ivy-like pale green foliage and showy fruit, first green striped white, turning when ripe to bright scarlet striped white.

96 **Laciniosa.** 10 feet... 5c pkt.

TUBEROUS-ROOTED BEGONIAS.

(See Bulbs.)



Calliopsis.



Empress Candytuft.

CARNATION

Carnations are general favorites for their delicious fragrance and richness of colors. They are indispensable both for greenhouse culture in winter and for the garden in summer. The Marguerite type are the best for summer flowering.

104 **Fine Double Mixed.** A good strain for outdoor culture. 10c pkt.

105 **Marguerite Giant.** These are deservedly the most popular Carnation with the amateur, as they begin flowering in four months from time of sowing. Finest Mixed. 5c pkt.



Marguerite Carnation.

CARDIOSPERMUM. (Balloon Vine.)

A rapid growing annual climber; succeeds best in light soil; seed vessels look like miniature balloons.

106 **Cardiospermum.** (Love-in-a-Puff.).....5c pkt.

CANNA. (Indian Shot.)

Soak the seeds in warm water until they show evidence of swelling; then sow in sandy loam, and place in a hotbed; when up to the second leaf, pot off singly.

107 **Mixed.** Crozy's finest sorts. Per oz., 20c...5c pkt.

CAMPANULA. (Canterbury Bells.)

This old-fashioned flower is a favorite with all. Stately and showy, and of the easiest growth. Hardy biennials.

108 **Medium** (Single Canterbury Bells). The old-fashioned sort, with beautiful, large, bell-shaped blossoms. Single Mixed. All colors.....5c pkt.

109 **Calycanthemum** (Cup and Saucer Canterbury Bells). This is unquestionably the finest type of this old-fashioned and much-prized garden plant. Finest Mixed. All colors of the Cup and Saucer type.5c pkt.

CANDYTUFT.

Universally known and cultivated, and considered indispensable for cutting; bloom profusely; 1 foot.

110 **Empress, or Snow Queen.** Large trusses of pure white flowers5c pkt.

111 **White Rocket.** Pure white, large truss.....5c pkt.

112 **Carmine**5c pkt.

113 **Finest Mixed.** All colors; oz., 20c.....5c pkt.

CALIOPSIS.

Showy and beautiful free-flowering annuals, blooming all summer and excellent for cutting; 1½ to 2 feet.

107 **Golden Wave.** A very showy sort, with bright, golden-yellow flowers, with small, dark centers, blooming profusely.5c pkt.

98 **Finest Mixed**5c pkt.

COREOPSIS.

99 **Lanceolata Grandiflora.** One of the finest hardy garden plants forming large clumps, grows 2 to 3 feet high and increasing in beauty, luxuriance and floriferousness each year; it flowers the first season from seed sown early. It is an improved variety of the lanceolata type, producing long-stemmed, rich, yellow flowers, flowering in profusion for a long period during the summer; unequalled for cutting; grows anywhere. Hardy perennial.....10c pkt.

CALENDULA.

(Pot Marigold.)

Showy, free-flowering hardy annuals, growing in any good garden soil, producing a fine effect in beds or mixed borders and continuing in bloom until killed by frost; valuable also for pot culture; 1 foot.

100 **Prince of Orange.** This variety surpasses in beauty the well known Calendula Meteor. The stripes around each petal are of a deep orange color, making a brilliant appearance.5c pkt.

101 **Pure Gold.** A grand variety, with double extra large flowers of a pure golden yellow.5c pkt.

102 **Fine Double Mixed.** Contains the choicest sorts. 5c pkt.

CALCEOLARIA.

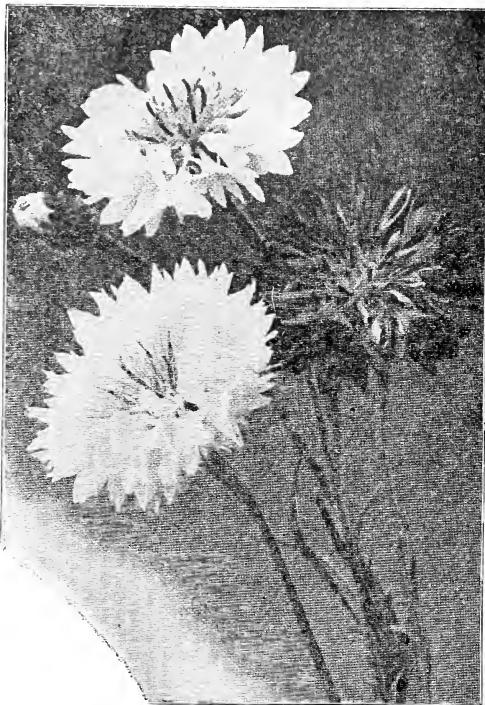
Unsurpassed for pot culture in the greenhouse or conservatory, producing their brilliant flowers in great profusion and variety.

103 **Hybrida Grandiflora.** Mixed varieties.....25c pkt.

Castor Oil Bean. (See Ricinus.)
California Poppy. (See Eschscholtzia.)



Campanula Medium (Canterbury Bells.)



Centaurea Cyanus (Cornflower).

CELOSIA PLUMOSA.

(Feathered Cockscomb.)

Make fine plants for large beds or groups, and the plumes or flowers can be cut and dried for winter bouquets.

126 **Thompson's Superb** (Triomphe de l'Exposition). Of pyramidal growth, attaining a height of 3 feet, and producing graceful, feathery plumes of the most brilliant crimson. 10c pkt.
 127 **Thompsoni Magnifica**. Similar to the preceding except in colors, which vary in the most magnificent shades, ranging from the clearest yellow to the darkest blood-red. 15c pkt.
 128 **Golden Plume**. Bright, golden-yellow plumes. 10c pkt.
 129 **Plumosa, Mixed**. Feathered varieties in all colors. 5c pkt.



Celosia. Glasgow Prize.

CENTROSEMA.

(The Butterfly Pea.)

Interesting and beautiful hardy perennial vine of rare and exquisite beauty. It blooms early in June from seed sown in April, and bears in the greatest profusion inverted pea-shaped flowers, from $1\frac{1}{2}$ to $2\frac{1}{2}$ inches in diameter, ranging in color from a rosy violet to a reddish purple.

130 **Grandiflora** 10c pkt.

CINERARIA.

A well known greenhouse plant, having a range and brightness of color scarcely surpassed. It may be had in bloom through the greater part of the year.

131 **Hybrida Grandiflora**. This strain of Cineraria can not be surpassed, either for size of flowers or beauty of color. Many of the blooms measure $2\frac{1}{2}$ inches in diameter. We have received very flattering reports from florists and private gardeners of their success with our Cineraria seed. 25c pkt.

Seeds are different from other merchandise. The real value of seeds can only be known after months of labor. Buy your seeds of a reliable seed house with a reputation back of it. Seeds of real merit must be grown and sold by practical, trained seedsmen, with a reputation made and to be maintained.

CENTAUREAS.

Under this name is included such popular annuals as the Cornflowers, Sweet Sultans, etc. They are favorites in all sections of the country, are perfectly hardy, will grow and do well almost anywhere, and are much in demand as cut flowers.

CENTAUREA CYANUS.

Ragged Sailor, Cornflower or Blue Bottle. Very attractive flowers of easiest culture, one of the most graceful of all the old fashioned flowers. Sow early in the spring in the beds where they are to bloom.

114 **Emperor William**. Fine sky-blue. 5c pkt.
 115 **Emperor William, Semi-double**. This is a new variety of Cornflower. Very fine dark blue. 5c pkt.
 116 **Mixed**. Blue, white, rose, etc. 5c pkt.
 117 **Double-flowered Mixed**. All colors, including blue, rose, white, etc. 5c pkt.

CENTAUREA IMPERIALIS.

Royal Sweet Sultans.

This beautiful class is undoubtedly the finest of all Sweet Sultans for cut-flower purposes. The sweet-scented, artistic-shaped flowers are borne on long, strong stems, and when cut will stand for several days in good condition. It is best, in this latitude, to sow very early in the spring, so that they may perfect their flowers before very hot weather comes.

118 **Rose** 10c pkt.
 119 **Lavender** 10c pkt.
 120 **Pure White** 10c pkt.
 121 **Finest Mixed Colors** 5c pkt.

WHITE-LEAVED CENTAUREAS.

(Dusty Millers.)

Fine for bedding, vases, hanging-baskets and pots; also extensively used for margins. As an edging to a bed of dark-leaved Cannas or Scarlet Sage, these are particularly effective. Sow the seed early indoors and transplant in May.

122 **Candidissima**. Silvery white 10c pkt.
 123 **Gymnocarpa**. Fine-cut silvery foliage. 10c pkt.

CELOSIA, OR COCKSCOMB.

Free-blooming, graceful plants, growing best in rather light soil, not too rich, producing beautiful comb-shaped flowers; grown in pots, they are fine for the greenhouse or conservatory. Half-hardy annuals.

124 **Glasgow Prize**. A superb sort, with enormous rich, deep crimson combs. 10c pkt.
 125 **Dwarf Mixed**. Large solid heads of bloom. 5c pkt.



Cineraria Hybrida Grandiflora.

CHRYSANTHEMUMS. ANNUAL VARIETIES.

Showy and effective garden favorites, extensively grown for cut flowers. The hardy annuals are summer-flowering border plants, and quite distinct from the hardy perennial and autumn flowering varieties.

132 **Inodorum Bridal Robe.** Of compact and upright habit. The plants grow about 12 inches high, and are covered the entire summer with their beautiful snow-white double flowers, which resemble the White English Daisy. Valuable for cutting. 10c pkt.
 133 **Segetum, Evening Star, or Helios** (Corn Marigold, or Annual Golden Marguerite). A splendid variety for cutting, flowers 3 inches across, of pure golden-yellow; in general appearance resembles the Yellow Paris Daisy. 10c pkt.
 134 **Coronarium Double Mixed.** Yellow, white etc. 5c pkt.
 135 **Single Mixed** (Painted Daisies). Many colors. 5c pkt.

PERENNIAL VARIETIES.

136 **"Shasta Daisy."** A grand large-flowering Daisy, hardy, robust growth and produces larger and finer flowers each season as the plants increase in strength. The flowers measure four inches in diameter, and while single have three or more rows of long, slender, snowy-white petals surrounding a small golden yellow center or eye. They are especially useful as cut flowers as well as showy bloomers for planting in beds or borders of perennial or hardy flowers. Selected Seed, much superior to the original strain. 10c pkt.
 137 **Frutescens Grandiflorum** ("Paris Daisy," or Marguerite). White, yellow eye. 10c pkt.
 138 **Comtesse de Chambord** (Yellow Paris Daisy). Similar to the above except in color, which is a beautiful clear yellow. 10c pkt.

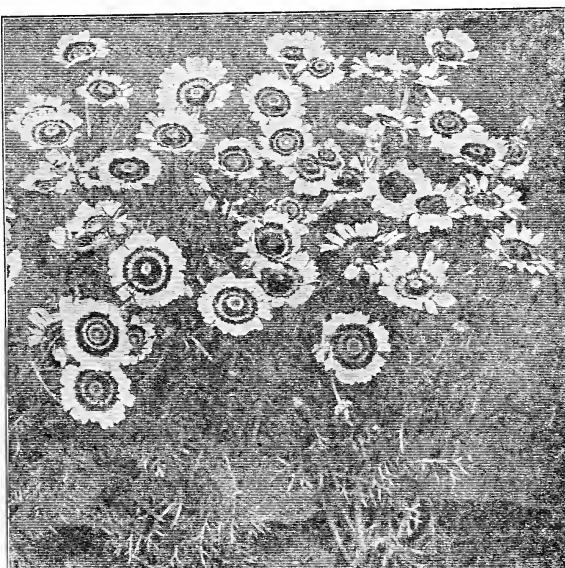
139 **Japanese Hybrids.** The seed here offered has been saved from a magnificent collection. Seed sown in spring will produce flowering plants by fall. 15c pkt.

140 **Hardy Pompon.** A fine strain of the old-fashioned hardy fall-flowering sorts, with double button-like blossoms. Mixed colors. 10c pkt.

CLEOME.

(Giant Spider Flower.)

141 **Pungens.** Singular-looking, rose-colored flowers; the stamens look like spiders' legs, and present a very attractive appearance. annual, 3 feet. This plant is now used extensively in many of the public parks, planted among shrubbery, and is very effective. 5c pkt.



Single Annual Chrysanthemums.

CONVOLVULUS.

(Morning Glory.)

MAJOR, OR CLIMBING VARIETIES.

Deservedly very popular, as they are one of the most free-flowering and rapid-growing plants in cultivation, thriving in almost any situation; the beauty and delicacy of their brilliant flowers are unsurpassed; annuals; 15 feet.

143 **Morning Glory, Mixed.** All colors. Per oz. 15c. 5c pkt.

144 **Japanese Morning Glory.** The flowers are of gigantic size, exquisite variety of colors and magnificent marbled foliage. The flowers measure from 4 to 6 inches across. The colors are limitless in variety and very beautiful. This mixture contains a finer and larger collection of colors with larger flowers, more frilled than the ordinary mixture. 10c pkt.

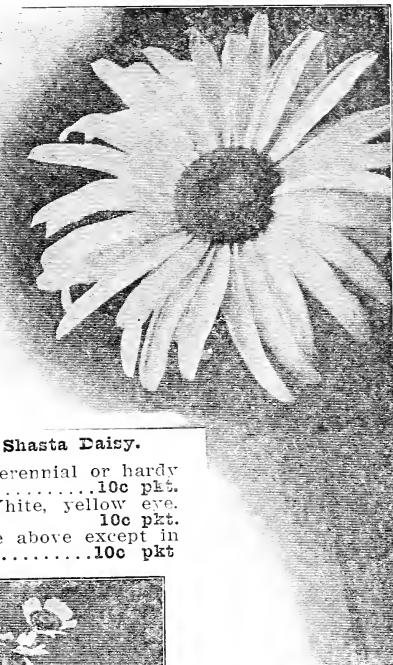
COBAEA SCANDENS.

A magnificent rapid-growing summer climber, and bearing large bell-shaped purple flowers. In sowing place the seeds edgewise and cover lightly.

145 **Purple Lilac.** 10c pkt.



Japanese Morning Glory.



Shasta Daisy.

COLEUS.

Our strain of hybrid varieties produces the finest colored, most attractive and novel foliage plants for house or garden culture. A most interesting subject to grow from seed. Easily raised. Sow in March or April.

142 **Mixed.** 25c pkt.

CYPRESS VINE.

One of the most popular summer climbers; flowers small, thickly set, in delicate fern-like foliage. Half hardy annual.

146 **Scarlet.** 5c pkt.

147 **Mixed Colors.** Oz. 30c. 5c pkt.

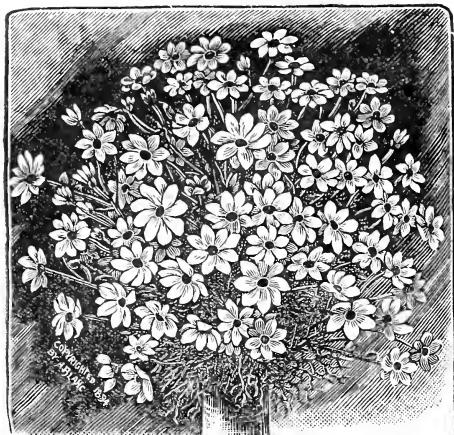
Columbine. (See Aquilegia.)

Coreopsis. (See Calliopsis.)



FLOWER SEED BY WEIGHT.

We carry a large stock of flower seeds and can furnish any quantity desired of any sort. Send us your list for estimate.



Cosmos.

CYCLAMEN.

A popular pot-plant for winter and spring-flowering, blooms are very freely produced and last a long time. Seedlings bloom in eight to ten months.

158 **Giant-flowered** (*Persicum giganteum*). Best strain; orchid-flowering. Mixed. 25c pkt.

DAISIES.

(See *Bellis*.)

BOOKS ON
HORTICULTURE.

See list on inside of back cover.

DAHLIA.

Dahlias are easily grown from seed and bloom the first season. The earlier they are started the better, which can be done nicely in a box in a sunny window or the greenhouse. Some specimens grown from seed are fully equal to many of the named sorts, and there is always the chance of getting some entirely new varieties. The Single Dahlias are being planted more extensively every year; they are quick and profuse bloomers, and their colors are especially rich and brilliant. Tuberous-rooted half-hardy perennials; protect the roots during winter in a dry cellar in sand.

159 **Large-Flowering Choicest Double Mixed.** This elegant assortment of seed is saved from round, double flowers; many beautiful colors. 10c pkt.
 160 **Pompon Varieties, Fine Mixed.** These have small, round, perfectly double flowers; many beautiful colors. 10c pkt.
 161 **Cactus Varieties, Choicest Mixed.** Most popular at the present time; distinct and elegant; petals pointed; blooms perfectly double. 10c pkt.
 162 **Twentieth Century or Orchid-Flowered.** A truly exquisite single Dahlia. Individual flowers are 5 to 8 inches across. Innumerable colors, that have the rich sheen of velvet. 10c pkt.
 163 **Single Giant Perfection.** This strain produces flowers of immense size, in a great variety of coloring. 10c pkt.



Cyclamen.

DIGITALIS.

(Foxglove.)

Handsome and highly ornamental hardy plants of stately growth. They are now used extensively with good effect for naturalizing in shrubberies, the edge of woods and other half-shady places; 3 to 5 feet.

164 **Gloxiniaeflora.** This is a fine strain of Foxglove, with handsome spotted Gloxinia-like flowers on long spikes; all colors, mixed. 5c pkt.
 165 **Monstrosa** (Mammoth Foxglove). Long spikes, surmounted by one enormous flower; very odd; all colors, mixed. 10c pkt.

COSMOS.

Beautiful autumn-blooming plants. They produce thousands of beautiful flowers in pure white, pink and crimson shades, furnishing an abundance of cut blooms for autumn decoration when other flowers are scarce. Should be sown in spring in the open ground, when danger of frost is past, or the seed may be started under cover and afterwards transplanted. Plant not less than 18 inches apart in rows or in masses in beds. When the plants are about a foot high the tops should be pinched out to induce a bushy growth. They prefer a rather light, not too rich soil, but do well almost anywhere.

Mammoth Perfection Cosmos. A magnificent selection, bearing flowers of mammoth size and perfect form, and representing the highest developments in Cosmos to date. We offer it in the following colors:

148 **Crimson.** Rich and deep..... 5c pkt.
 149 **Light Pink.** A popular color..... 5c pkt.
 150 **Pure White.** 5c pkt.
 151 **Mixed Mammoth Perfection**, $\frac{1}{4}$ oz., 20c..... 5c pkt.
 152 **Giant-flowering "Lady Lenox."** The latest development in this popular autumn flower, bears gigantic flowers, with wide, overlapping petals of splendid substance, making a perfectly circular flower, which is borne on very long stems, in color a beautiful deep rosy-pink. The plant is of strong, vigorous growth..... 10c pkt.

EXTRA EARLY COSMOS.

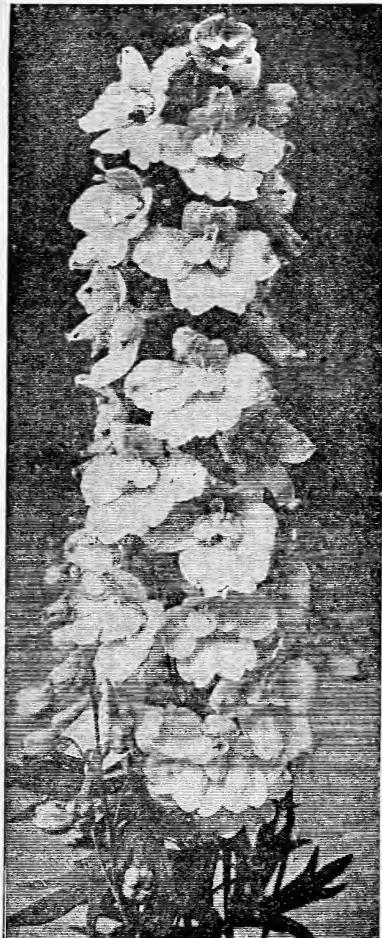
Seeds sown in the open ground produced plants that were covered with bloom two months before the late-flowering kinds. While the flowers are not so large as the late sort, they are of good size, and will undoubtedly perfect their flowers in the most northerly States.

153 **Dawn.** White, flushed pink..... 10c pkt.
 154 **Crimson.** Rich. 10c pkt.
 155 **Pink.** A pretty shade. 10c pkt.
 156 **Pure White.** 10c pkt.
 157 **Mixed, Early Cosmos.** All colors, $\frac{1}{4}$ oz., 25c; 10c pkt.

Flower Seeds by Weight.
 We carry a large stock of Flower Seeds and can furnish any quantity desired of any sort.
 Send your list for estimate.



Double Dahlias.



Delphinium, Giant Hybrids.

173 **New Giant-Flowering Hybrids.** These magnificent Hybrids, the grandest of Delphiniums in existence, produce beautiful spikes of immense flowers, single, semi-double and double. Flower spikes are from 2 to 3 feet in length. The colors are very beautiful, ranging from pure white through all the shades of lavender and blue. **Mixed Colors**.....10c pkt.

174 **Elatum** (Giant Bee Larkspur). Clear, blue flowers, 3 feet. 5c pkt.

175 **Formosum.** Elegant spikes of the richest dark-blue flowers, with a white center; especially fine for cutting; 4 feet. 5c pkt.

176 **Formosum Coelestinum.** Light, sky-blue flowers, with darker centers; a very fine variety; 4 feet.....10c pkt.

177 **Mixed Chinese Varieties.** This elegant mixture contains a great variety of shades, from pure white to gentian-blue. The plants are brilliantly showy.....5c pkt.

Annual Delphiniums. (See Larkspur.)

DIMORPHOTHECA (African Golden Daisy).

178 **Aurantiaca.** An extremely showy annual Daisy from South Africa, which seems to suit our climatic conditions perfectly. The bushy plants grow 12 to 15 inches high. The flowers, which are $2\frac{1}{2}$ inches and over across, are a unique, rich, glossy orange-gold, with dark disc and halo. These glitter in the sunshine and present a magnificent sight when in full bloom. Seed may be sown in the same way as Asters or Petunias, and should have a dry, sunny position. They bloom the greater part of the summer and fall.....10c pkt.

DOLICHOS (Hyacinth Bean). A rapid-growing annual climber, flowering freely in erect racemes, followed by ornamental seedpods; for covering arbors, trellises, etc. Sow the seed in the garden in May, where they are to remain; 10 feet.

179 **Finest Mixed.** Very choice mixture of all the best climbing varieties. $\frac{1}{2}$ oz., 10c; oz., 15c.....5c pkt.

DUSTY MILLER. (See Centaurea.)**DIANTHUS, OR PINKS.**

This elegant family contains many of the most valuable and popular flowers in cultivation. All the sorts classed as annuals may be sown directly in the garden as soon as danger from frost is past, and will in a short time become a mass of bloom, and so remain all summer. Elegant as cut flowers for bouquets, as the stems are good. Grow about 1 foot high, and are of easiest culture.

DOUBLE ANNUAL PINKS.

166 **Chinensis f. pl.** (China Pinks). Large, double, fragrant flowers. Mixed colors.....5c pkt.

167 **Heddwigi Diadematis f. pl.** (Double Diadem Japan Pink). Densely double flowers in beautiful tints of crimson, lilac, purple, outer edges fringed with white.....5c pkt.

168 **Laciniatus f. pl.** (Double Fringed Japan Pink). Large, double, showy flowers, with fringed edges; various colors and beautifully striped5c pkt.

169 **ROYAL PINK** (*Dianthus Heddwigi Nobilis*). The flowers are very large and the petals are frilled and fringed. The colors are of a deep yet very bright blood-red, then shade to carmine and pink and even white.....5c pkt.

SINGLE ANNUAL PINKS.

170 **Dianthus Laciniatus Nanus** (New Hybrids). This is a grand new strain of the annual Pinks, with laciniated or fringed petals. The flowers vary in shade from white to deep rose and even to purplish red; are all tinged more or less with bright salmony red or salmony scarlet. The plants grow only about 10 inches high and are remarkable for their free-flowering character.....5c pkt.

HARDY GARDEN, or CLOVE PINKS. This splendid class of hardy perennial Pinks should be in all gardens. They have the delightful clove fragrance.

171 **New Double Large-Flowering Grass, or Spice Pinks** (*Plumbago Semperflorens*, Fl. Pl.). One foot high. The flowers, which are beautifully fringed, are much larger and more double than the old varieties, while the colors are far richer, including a large variety of colors and markings not known to the old-fashioned Pinks. Many are exquisitely spotted and splashed. They emit a delightful, sweet-scented, spicy odor. Perfectly hardy, requiring only the ordinary culture of Pinks. They increase in size and beauty every year. Bloom profusely during the spring and early summer. 15c pkt.

172 **New Single Large-Flowering Grass, or Spice Pink.** Mixed. Same as above, only single5c pkt.

DELPHINIUM.

(Hardy Perennial Larkspurs.)

One of the most exquisite blue-tinted flowers that we have. Very effective planted in beds or masses, in borders, or better than all in combination with white lilies, blooming at the same time as the exquisite *Lilium Candidum*. If picked freely and not allowed to go to seed, they will continue blooming all summer. Plant $1\frac{1}{2}$ to 2 feet apart each way. Perennial varieties should be sown in the fall or very early in the spring, transplanting to the open ground.



Dianthus Chinensis.

ESCHSCHOLTZIA.

(California Poppy, Gold Cups.)

The California Poppy is a showy, free-flowering plant of low-spreading growth, with finely divided foliage, blooming throughout the season. Seed should be sown thinly in shallow drills early in spring. Hardy annuals.

180 **Mixed.** Single cup-shaped flowers in shades of bright yellow, deep orange, pink and silvery white. 5c pkt.
 181 **Californica.** Bright yellow, with orange center. 5c pkt.
 182 **Carmine King.** A beautiful carmine rose color, as intense on the inside as on the outside of the petals, which gives it an altogether novel and beautiful effect. 5c pkt.
 183 **Golden West.** The flowers measure from 3 to 6 inches in diameter; they have large, overlapping petals, often daintily waved at the edges. Color, light canary-yellow, with an orange blotch at the base of the petals, which blotch often suffuses almost the whole flower. 5c pkt.

ECHINOCYSTIS (Wild Cucumber Vine).

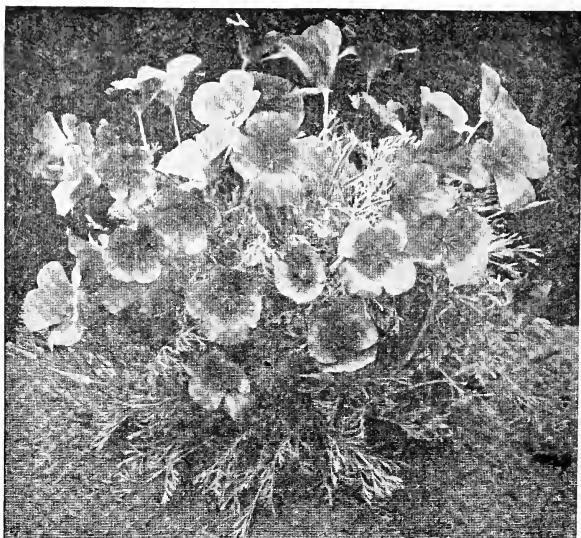
184 **Lobata.** One of the quickest-growing annual vines we know of; splendid for covering trellises, old trees, fences, etc. Per oz., 30c. 5c pkt.

EUPHORBIA. Strong-growing annuals, suitable for beds of tall-growing plants or mixed borders; the flowers are inconspicuous; the foliage, however, is exceedingly ornamental.

185 **Variegata** (Snow on the Mountain). Attractive foliage, veined and margined with white; 2 feet. Per oz., 30c. 5c pkt.

186 **Heterophylla** (Annual Poinsettia Mexican Fire Plant, Painted Leaf). An annual resembling in habit and color the beautiful hothouse Poinsettia. The plants grow 2 to 3 feet high, of branching, bush-like form, with smooth, glossy-green leaves, which about midsummer become a beautiful orange-scarlet, presenting a striking and brilliant appearance. 10c pkt.

EVERLASTING, ETERNAL, or STRAW FLOWERS. (See *Acroclinium*, *Ammobium*, *Gomphrena*, *Helichrysum*, *Rhodanthe* and *Xeranthemum*.)



Eschscholtzias, or California Poppies.



Gaillardia, Kelway's Hybrid.

enormous size, and the colors are most varied. This is one of the hardy perennial plants that no garden should be without. In flower for about three months; 2 feet. 10c pkt.

194 **Grandiflora Compacta.** A compact variety, forming bushy plants 12 to 15 inches high, and bearing its long-stemmed flowers well above the foliage. 10c pkt.

195 **Grandiflora Oculata.** Pale sulphur, bright maroon eye. 10c pkt.

GODETIA. Beautiful garden annual, of easy culture in any good soil. Large flowers, embracing a great variety of rich colors. Can be grown in pots; 1½ feet. Hardy annual. 5c pkt.

196 **Finest Mixed** 5c pkt.

GOMPHRENA (Globe Amaranth). A desirable everlasting, valuable for its handsome globular heads of flowers. Seed germinate very slowly. Half-hardy annual. 5c pkt.

197 **Mixed** 5c pkt.

FEVERFEW. (See *Pyrethrum*.)
FORGET-ME-NOT. (See *Myosotis*.)
FOXGLOVE. (See *Digitalis*.)

GERANIUM.

(Pelargonium.)

The heads of gorgeous flowers, of many shades of color, borne continuously, render this one of the most popular plants grown, either for pot culture in winter or for bedding out in summer.

187 **Zonale, Mixed.** A superb strain of the largest and finest varieties. 10c pkt.

188 **Apple-scented.** This fragrant favorite variety can only be grown from seed to form fine plants. 10c pkt.

GNAPHALIUM (Edelweiss). This famous flower of the Alps is of a downy texture, star-shaped, and pure white. They are highly prized as souvenirs, and are sold at a high price in Switzerland.

189 **Leontopodium.** White. 10c pkt.

GAILLARDIA.

(Blanket Flower.)

Annual Varieties.

Splendid showy annuals; in bloom from early summer till November; excellent for beds, borders or for cutting; should be sown where they are to bloom; 1½ feet.

190 **Picta.** Crimson and orange. 5c pkt.

191 **Picta Lorenziana.** A charming, profuse, double-flowering strain; mixed colors. 5c pkt.

192 **Picta Mixed.** Single sorts; fine colors. 5c pkt.

Hardy Perennial Varieties.

The following are among the showiest and most effective hardy perennial plants, and should find a place in every hardy border. They thrive in almost any position or soil, require little or no protection and take care of themselves. If sown early they begin flowering in July, continuing a mass of bloom until frost; fine for cutting; 2 feet.

193 **Kelway's Hybrids.** The finest strain of Perennial Gaillardias. The flowers are

of

194 **Grandiflora Compacta.** A compact variety, forming bushy plants 12 to 15 inches high, and bearing its long-stemmed flowers well above the foliage. 10c pkt.

195 **Grandiflora Oculata.** Pale sulphur, bright maroon eye. 10c pkt.

GODETIA. Beautiful garden annual, of easy culture in any good soil. Large flowers, embracing a great variety of rich colors. Can be grown in pots; 1½ feet. Hardy annual. 5c pkt.

196 **Finest Mixed** 5c pkt.

GOMPHRENA (Globe Amaranth). A desirable everlasting, valuable for its handsome globular heads of flowers. Seed germinate very slowly. Half-hardy annual. 5c pkt.



Gourds.

ORNAMENTAL GOURDS.

Climbing plants with curiously shaped fruit, in various colors. Being of rapid growth, they are fine to cover old fences, trellises, stumps, etc. The foliage is ornamental, and the marking of some of the fruit quite extraordinary. Do not plant the seed till all danger of frost is over, and select rich, mellow ground. Tender annual climbers, 10 to 20 feet high.

198	Calabash, or Dipper.	Long slim handle.....	5c pkt.
199	Dish Cloth.	This variety is very ornamental, with clusters of large, yellow flowers. The fruit, when dried, is used as a dish cloth.....	5c pkt.
200	Giant Bottle.	Large and ornamental.....	5c pkt.
201	Hercules Club.	A curious sort. Club-shaped.....	5c pkt.
202	Japanese Nest Egg.	White; fac-simile of an egg; do not crack, and are not injured by heat or cold. Very ornamental climber.....	5c pkt.
203	Orange.	The well-known mock orange.....	5c pkt.
204	Pear-shaped.	Green and white striped.....	5c pkt.
205	Sugar Trough.	Used for buckets. Very large.....	5c pkt.
206	African Pipe.	The stem end of the fruits are much used in making pipes.....	5c pkt.
207	Mixed Varieties.	All kinds; per oz, 25c.....	5c pkt.

ORNAMENTAL GRASSES.

The Ornamental Grasses serve the double purpose of rendering the mixed flower bed or border attractive during the summer, and for the use of the spikes or panicles in a dried state in winter bouquets. For large beds, or groups on lawns nothing gives a finer effect, and they are now largely used in prominent positions in many of the finest public parks, etc. When carefully dried, they are useful in making up winter bouquets. Cut when in full bloom, and before the flowers get too old; tie in small bunches and hang up in a dry, dark place, with the heads downward.

208	Briza Maxima.	(Large Quaking Grass.) A beautiful variety. Hardy annual; 1 foot.....	5c pkt.	
209	Brizmus Brizaeformis.	A graceful variety, with dropping panicles. Hardy perennial, flowering the first season; 1 foot.....	5c pkt.	
210	Coix Lachryma.	(Job's Tears.) Broad, corn-like leaves, and hard, shining, pearly seeds, resembling tears; 2 feet.....	5c pkt.	
211	Erianthus Ravennae.	A hardy perennial, noble grass, with exquisite white plumes; flowers the first season if sown very early; 10 feet.....	5c pkt.	
212	Eulalia Japonica.	One of the most beautiful of the tall-growing grasses; hardy; 5 feet.....	5c pkt.	
213	Gynoerium Argenteum.	(Pampas Grass.) The finest ornamental grass in cultivation. Half-hardy perennials; 10 feet.....	5c pkt.	
214	Pennisetum Ruppelianum.	Beautiful and graceful spikes of purple; this is one of the best; 2½ feet.....	10c pkt.	
215	Stipa Pennata.	(Feather Grass.) A hardy perennial; flowers the second season from seed; 2 feet.....	5c pkt.	
216	Finest Mixed.	Used for making winter bouquets.....	5c pkt.	
	GYPSOPHILA	(Baby's Breath).	Pretty free-flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers. Hardy perennial.	
217	Paniculata.	White, fine for bouquets.....	5c pkt.	

HELIANTHUS.

(Sunflower.)

It is raised as an absorbent of miasma in damp or ill drained situations, thus preventing fevers. The seed is good for feeding poultry. Hardy annuals.

SINGLE SUNFLOWERS. These Sunflowers are indispensable for cutting. Sown on a sunny spot in April or May they come into bloom early in summer, and keep up a constant supply of flowers until cut down by frost.

218 *Cucumerifolius* (Miniature Sunflower). Small, single, rich, yellow flowers. An abundant bloomer; 4 feet; ¼ oz, 10c. 5c pkt.

219 *Stella* (Improved Miniature Sunflower). Differs from the above by its larger and better formed flowers of the purest golden yellow, with black disc; ¼ oz, 15c. 5c pkt.

220 *Orion*. Artistic and effective new variety of "Stella." The petals are twisted like a Cactus Dahlia; ¼ oz, 15c. 5c pkt.

221 *Perkeo*. A charming dwarf variety of the Miniature Sunflower. The plants form compact bushes about 12 inches high by 14 inches through. There are many positions, such as the front of borders or beds of plants of medium height, where this can be used to good advantage, flowering as it does, from the end of June until cut down by hard frost; ¼ oz, 15c. 5c pkt.

222 **Miniature Varieties, Mixed.** A multitude of new varieties have been raised from the popular Miniature Sunflower which we offer in mixture. They all differ from the parent, most of them being larger, and many with curiously twisted petals. The prevailing colors are pale yellow, golden and creamy white, some with black centers, and all beautiful; for cutting they are indispensable; ¼ oz, 15c. 5c pkt.

Double Sunflowers.

223 **Crysanthemum-Flowered.** An excellent plant for the lawn or shrubbery where color effect is desired. The plants grow 6 to 7 feet and produce a great number of double flowers. On account of their size, long stems and color the flowers are well adapted for vases; oz, 25c. 5c pkt.

224 **Globosus Fistulosus** (Dahlia Sunflower). Flowers large, double, of a rich saffron color; 6 feet; oz, 25c. 5c pkt.

225 **Mammoth Russian.** Extra large flowers, with an abundance of seed; oz, 10c. 5c pkt.

226 **Double Varieties, Mixed;** oz, 20c. 5c pkt.

Hardy Perennial Sunflowers.

227 **Mixed.** Contains the finest single flowering hardy perennial sorts, including such varieties as Maximilliana, Miss Mellish, Orygialis, Tomentosus, etc., etc. Seeds sown early will produce flowering plants the first year; as subjects for the hardy border, as well as for cutting, they are of great value..... 10c pkt.



Sunflowers.



Single Sunflowers.



Chater's Prize Hollyhocks.

241 **Crimson Eye.** Flowers of the largest size, pure white, with large spot of velvety crimson in the center of each flower. Hardy perennial; flowers the first year from seed sown early. 10c pkt.

242 **Mallow Marvels** (Meehan's). Immense flowers from 8 to 10 inches in diameter, in following colors; fiery crimson, blood red, shell pink and white. Their great beauty surpass all other perennials in profusion of bloom and brilliancy of color. Of herbaceous character they come up year after year and are absolutely hardy. In bloom from July to October. 10c pkt.

HONESTY (Moonwort, Satin Flower). Early free-flowering plants. Admired for their silver-like seed pods. Hardy biennial.

243 **Lunaria Biennis**..... 5c pkt.

HUMULUS (Japanese Hop). Annual climbing Hop, of rapid growth, valuable for covering trellises and verandas. Tender annual.

244 **Japonicus.** A very ornamental and fast-growing climbing plant. The foliage resembles in shape that of the common Hop, is very dense, and in color a lively green; annual. 5c pkt.



Heliotrope.

245 **Japonicus Variegatus.** A variegated variety of the Japanese Hop. The leaves are beautifully and distinctly marked. As with the green-leaved variety, it is never injured by insects nor affected by the heat, but retains its fresh and bright variegated foliage until late in the autumn. 5c pkt.

HUNNEMANNIA (Giant Yellow Tulip Poppy, or Bush Eschscholtzia).

246 **Fumariaefolia.** This is by far the best of the Poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large buttercup-yellow, poppy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful, feathery, glaucous foliage. 5c pkt.

HYACINTH BEAN. (See Delichos.)

HOLLYHOCK.

One of the most majestic of hardy plants, and a clump or line in any garden gives an effect not attainable with any other plant. For planting among shrubbery or forming a background for other flowers it is without equal. Seed sown any time before midsummer will produce fine plants for flowering next year. To get results this season it is necessary to get year-old plants. These we offer with other hardy plants under their proper heads.

228 **Chater's Prize, Double Mixed.** This strain stands unrivaled in richness and delicacy of coloring, with magnificent spikes of very double flowers; 3 pkts. 25c. 10c pkt.

229 **Chater's Double Pink**..... 10c pkt.

230 **Chater's Double Scarlet**..... 10c pkt.

231 **Chater's Double White**..... 10c pkt.

232 **Chater's Double Yellow**..... 10c pkt.

233 **Choice Double Mixed**..... 5c pkt.

234 **Mammoth Fringed Allegheny.** Mammoth flowers of loosely arranged fringed petals, which look as if made from the finest China silk. The colors vary from the palest shrimp pink to deep red. The plants are of strong growth, sending up spikes 6 to 7 feet high. 10c pkt.

235 **Everblooming.** Can be treated as annuals, the seeds may be started in the house or hotbed in March or April, and will commence to flower in July, and stay in flower until late in the season. Colors vary from snowy white, rosy carmine, yellow, blood-red to the deepest black in single; also in semi-double and double flowers. Plants branch out freely. 10c pkt.

236 **Single.** Many prefer the single flowering Hollyhocks. They are usually of freer growth and present a handsome appearance when covered with their artistic blossoms. Finest Mixed. All colors. 5c pkt.

HELICHRYSUM (Straw Flower). Everlasting flowers, large and full. Colors, white, yellow and red. Cut before the flowers fully expand. Hardy annual.

237 **Double.** Finest mixed. 5c pkt.

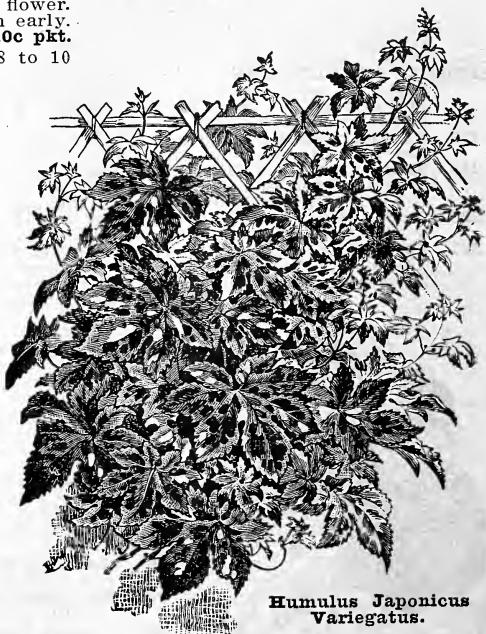
HELIOTROPE. A half-hardy perennial, flowering during the whole season; its delightful perfume makes it a desirable bouquet flower; a splendid bedding plant, or can be trained as a greenhouse climber.

238 **Lemoine's Giant.** Of robust growth and producing heads of flowers double the size of the old sort. 10c pkt.

239 **Finest Mixed.** All colors. 5c pkt.

HIBISCUS (Marshmallow). Showy, ornamental plants, for mixed beds or shrubbery borders, having large-sized, beautifully-colored flowers; blooms the first year if sown early.

240 **Hibiscus Africanus.** Large, cream-colored flowers, with a brown center; hardy annual; 1½ feet. 5c pkt.



Humulus Japonicus Variegatus.

IMPATIENS (Sultan's or Zanzibar Balsam). Charming plants for the decoration of the greenhouse or dinner table, producing bright, waxy-looking flowers profusely and almost continuously. The young seedlings should be carefully handled, as they are exceedingly brittle at the outset.

247 **Holstii.** It forms elegant bushes 1½ feet in height. The flowers measure 1½ inches across and are of a brilliant vermillion color. In a half-shady situation, the plants grow luxuriantly and form effective and showy flower beds, also an excellent pot plant. 15c pkt.

248 **Sultana Hybrida.** Beautiful hybrids. Varying shades of color, from delicate pink to the deepest red. 10c pkt.

IBERIS (Hardy Candytuft).

249 **Gibraltarica Hybrida.** White, shading to lilac. 10c pkt.

250 **Sempervirens.** A profuse white-blooming, hardy perennial, coming in flower early in the spring; much used for cemeteries, rockeries, etc.; 1 foot. 5c pkt.

ICE PLANT. Handsome and curious plants for hanging baskets, rock-work, vases and edgings. The leaves and stems are covered with crystalline globules, giving it the appearance of being covered with ice. Succeeds best in a sandy soil and warm situation. Half hardy.

251 **Mesembryanthemum.** *Crystallinum* (Ice Plant). 5c pkt.

MOON FLOWER, ETC.

(*Ipomoea*.)

Climbers of rapid growth, with beautiful and varied flowers; for covering walls, trellises, arbors or stumps of trees they are invaluable.

252 **Cross Bred or Hybrid Moon Flower.** At night and during dull days the plants are covered with an abundance of large, pure-white, fragrant flowers 5 to 6 inches in diameter. It is a rapid grower, and within a few months will grow as much as 40 feet. To insure germination, take a sharp knife and cut a small nick in shell of each seed, and soak in lukewarm water for about 4 hours before planting. Oz. 75c. 5c pkt.

Strong Moon Flower Plants, 20c each; \$2.00 doz. By mail, 25c each.

253 **Setosa** (Brazilian Morning Glory). Flowers 3 inches or more across, of a beautiful rose color, borne in large clusters very freely from July to frost. As a quick-growing vine it has no equal, covering an enormous space in a few weeks time. 5c pkt.

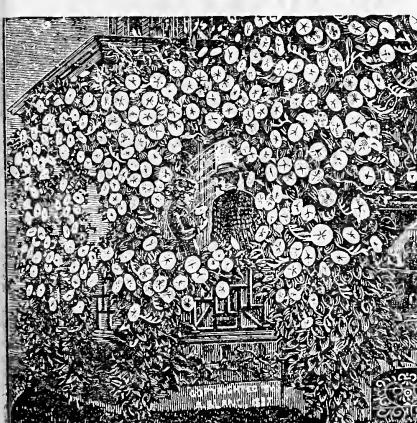
KENILWORTH IVY. A charming, small, neat, hardy perennial trailing plant, suitable for baskets, vases, pots and rock-work.

254 **Linaria Cymbalaria.** Lavender. 10c pkt.

KOCHIA (Summer Cypress, or Burning Bush). A highly ornamental annual of rapid growth which forms regular pyramids about 3 feet high, having a cypress-like appearance. The leaves are slender and of a light green until September, when they change to carmine and blood-red. The flowers are minute but countless. Sow indoors in April and plant out in May, or sow in open ground about May 1. Plants do best in a sunny exposure.

255 **Kochia Tricophylla**, oz. 50c. 5c pkt.

LADY SLIPPER. (See Balsam.)



Moon Flower, Cross Bred or Hybrid.

LARKSPURS.

(Annual *Delphinium*.)

These popular garden flowers have been greatly improved of late in color and size of blooms and habit of plants. Hardy annual.

256 **Double Stock-Flowered.** These tall-growing and branching Larkspurs produce the most brilliantly beautiful spikes of double flowers; continuously in bloom all summer. All colors, mixed. 5c pkt.

257 **Dwarf Hyacinth-Flowered.** Resembles a Dutch Hyacinth in style of bloom. Our mixture includes a very fine range of colors. 5c pkt.

258 **Giant Hyacinth-Flowered, Tall.** A superb class. The splendid flowers are very large, very double and of various beautiful colors, shadings and markings; long spikes of bloom like immense Hyacinths. 10c pkt.

259 **Double Dwarf Rocket.** A most choice mixture of varieties, that grow about 1 foot in height. 5c pkt.

260 **Double Tall Rocket.** This well-known mixture embraces the very choicest colors in the taller growing sorts. 5c pkt.

Hardy Perennial Larkspur. See *Delphinium*.

LANTANA. One of the most desirable half-hardy perennial greenhouse or bedding plants.

261 **Finest Mixed.** All colors. 5c pkt.

LATHYRUS (Everlasting, or Hardy Sweet Pea). Showy, free-flowering, hardy perennial climbers for covering old stumps, fences, etc.

262 **Mixed.** All colors. 5c pkt.

263 **Lavender** (*Lavandula Vera*). Well known, sweet-scented hardy perennial; should be extensively grown in the mixed border; 3 feet. 5c pkt.

LOBELIA. A charming dwarf-plant, admirably adapted for beds, edgings and rock-work. Their delicate, drooping foliage and pretty little blue and white flowers render them very attractive in pots or hanging baskets. The hardy perennial varieties are among the most attractive of our garden favorites, producing beautiful spikes of handsome flowers in autumn.

264 **Crystal Palace Compacta.** Rich blue; finest for bedding. 10c pkt.

265 **Gracilis.** Pale blue; trailing, fine for vases. 5c pkt.

266 **Speciosa.** Dark blue, trailing, fine for vases. 5c pkt.

267 **Dwarf Mixed Varieties.** For borders. 5c pkt.

268 **Cardinalis Hybrids.** Splendid hybrids mixed; highly recommended. Hardy perennial; 2 feet. 10c pkt.

LUPINUS.

269—**Annual Mixed.** Free-flowering, easily grown annuals, with long, graceful spikes of rich and various colored pea-shaped flowers; valuable for mixed borders and beds; prefers a little shade from the noonday sun; 2 feet. 5c pkt.

270 **Polyphyllus Roseus.** A fine variety of the perennial Lupine, with showy spikes of rose-colored flowers. 10c pkt.

271 **Perennial Mixed.** Hardy perennial varieties, in pink, blue and white mixed. 5c pkt.

MARIGOLD.

The African and French Marigolds are old favorite free-flowering annuals of easy culture; both are extremely effective. The former have uniformly large, yellow or orange-colored flowers, and are well adapted for large beds or mixed borders; the latter are dwarfer in growth, with beautifully striped flowers, and better suited for bedding purposes, or for pot culture; they succeed best in a light soil, with full exposure to the sun.

(See also Calendula.)



Marigold—"Legion of Honor"

also fine for the conservatory or greenhouse; if desired for the house, take up before the approach of frost. A half-hardy perennial, flowering the first season if sown early.

281 **Barclayana.** Deep violet; fine. 10c pkt.
282 **Finest Mixed.** All colors. 10c pkt.

MOON FLOWER. (See Ipomea.)

MORNING GLORY. (See Convolvulus.)

MOURNING BRIDE. (See Scablosa.)

MATEICARIA (Double White Feverfew). Free-flowering plants; producing all season fine double, white flowers. A fine bedding or pot plant.

283 **Grandiflora Fl. Pl.** 5c pkt.

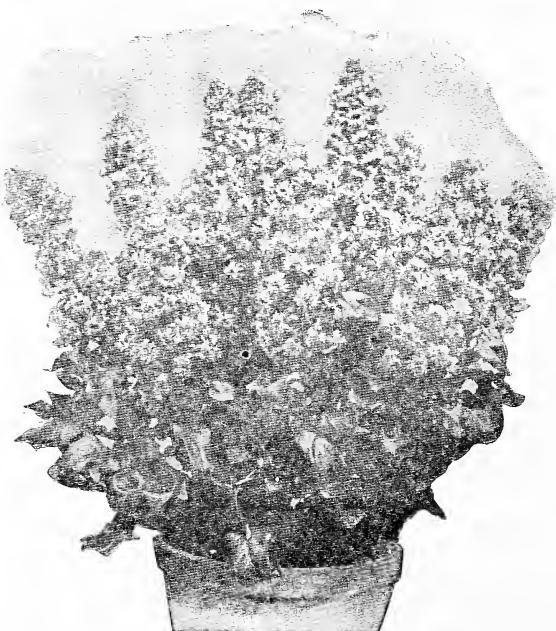
MIMULUS. Fine for greenhouse or moist, shady situations; half-hardy perennials, blooming the first year from seed if sown early.

284 **Tigrinus** (Monkey Flower). Fine mixed spotted varieties. 5c pkt.

285 **Moschatus** (Musk Plant). Fine for hanging-baskets, etc.; small, yellow flowers, fragrant foliage. 5c pkt.

MIMOSA (Sensitive or Humble Plant).

286 **Fudica.** Curious and interesting annuals, with pinkish-white flowers; the leaves close and droop when touched or shaken; 1½ feet. 5c pkt.



Defiance Mignonette.

AFRICAN VARIETIES.

272 **Orange Prince.** A high bred type bearing densely double flowers of a rich, deep golden-orange color; very showy. 5c pkt.
273 **Lemon Queen.** Another fine variety, with soft, lemon-yellow flowers, and forming a fine contrast to the preceding. 5c pkt.
274 **Pride of the Garden.** Immense flowers, densely double. Color golden-yellow. A feature of this variety is the compact, dwarf habit of the plant, which forms dense bushes 15 to 18 inches high. 5c pkt.

275 **El Dorado.** Flowers very large, imbricated and extremely double. Colors in all shades of yellow. 5c pkt.

276 **Large African.** Double, orange and lemon, mixed; 2 to 3 feet. Per ¼ oz., 20c. 5c pkt.

FRENCH VARIETIES. 277 **Scotch Prize.** A fine strain, with admirably striped double flowers; 1 foot. 5c pkt.

278 **Legion of Honor.** Single Dwarf Marigold, forming compact bushes. Flowers golden yellow and brown; blossoms in great profusion. 5c pkt.

279 **Dwarf French.** Fine colors, mixed, very double; 1 foot; per ¼ oz., 20c. 5c pkt.

MARVEL OF PERU, or FOUR O'CLOCKS (Mirabilis Jalapa). The well-known Four-O'Clocks. A handsome free-flowering garden favorite; half hardy perennial; blooming the first season from seed.

280 **Finest Mixed.** Beautiful colors; 2 feet; oz., 15c. 5c pkt.

MAURANDIA. Beautiful, rapid, slender growing climbers, blooming profusely until late in the autumn;



Marvel of Peru.

MIGNONETTE.

A well-known hardy annual.

287 **Grandiflora.** Large-flowering, fragrant; oz., 15c. 5c pkt.

288 **Defiance.** One of the finest sorts; excellent for forcing. 10c pkt.

289 **Machet.** Dwarf pyramidal growth, with very large, thick spikes, fragrant. 10c pkt.

MOMORDICA (Balsam Apple and Balsam Pear). Very curious climbing vine, with ornamental foliage, fruit golden-yellow, warty, and when ripe opens, showing the seed and its brilliant carmine interior; annuals; 10 feet.

290 **Balsamina** (Balsam Apple). Round apple-shaped fruit with very fine glossy green foliage. Oz., 30c. 5c pkt.

291 **Charantia** (Balsam Pear). Pear-shaped fruit; foliage heavier than the above; the fruits are used medicinally. Oz., 30c. 5c pkt.

MYOSOTIS (Forget-Me-Not). The Forget-Me-Nots succeed best in a shady, moist situation; perennials and hardy if given a slight protection through the winter.

292 **Alpestris Victoria.** Of bushy habit, bearing large, bright, azure-blue flowers. 10c pkt.

293 **Palustris.** The true Forget-Me-Not; beautiful blue flowers; 6 inches. 10c pkt.

294 **Palustris Semperflorens.** A dwarf Forget-Me-Not, continuing in bloom from early spring until autumn; blue; 8 inches. 10c pkt.



NASTURTIUMS

For ease of culture, duration of bloom, brilliancy of coloring and general excellence, nothing excels Nasturtiums. All they need is moderately good soil in a well-drained, sunny position, and from within a few weeks from the time they are sown until hard frost comes there is an endless profusion of their gorgeous blossoms. The varieties offered below were selected, after exhaustive trials, from a very large number of sorts as being the best and almost distinct:

TALL, or CLIMBING VARIETIES. Elegant and luxuriant climbers for verandas, trellises, etc. May be used to cover unsightly railings and to trail over rough ground with fine effect. The seedpods can be gathered while green and tender for pickling; 6 to 10 feet.

295 Chameleon. Different richly-colored flowers on the same plant.	302 Price Henry. Cream, spotted and tipped scarlet.
296 Crimson. Rich and velvety.	303 Purple. Rich shade of purplish crimson.
297 Chocolate. An odd and unique color.	304 Rose. A lovely shade of ruby rose.
298 King Theodore. Deep crimson maroon; dark foliage.	305 Scarlet. Glowing vermillion
299 Lemon Yellow. Clear yellow white with few red veins.	306 Schulzi. Rich, deep scarlet.
300 Orange. Pure Orange; no markings.	307 Straw Striped Scarlet. Effective.
301 Pearl. Creamy white.	308 Vesuvius. Salmony rose; an exquisite shade.
	309 Spotted. Rich yellow, spotted garnet.

Price. Any of the above Tall sorts, 15c per oz.; 40c per $\frac{1}{4}$ lb.; 5c pkt.

310 McCULLOUGH'S PREMIER MIXTURE OF TALL NASTURTIUMS.

A gorgeous mixture. Absolutely the finest produced. It contains all the new Giant Flowering kinds together with many other grand new hybrids. A mixture positively without rival.

A wonderful diversity of rich colors and new and striking combinations are found in this unequalled mixture. A row in full bloom is truly gorgeous beyond description, containing every shade and tint of yellow, rose, scarlet, orange, carmine, violet, purple, lemon, bronze, maroon, ruby, cream and pink, both in solid colors and mottled and striped in many ways.....15c oz.; 40c $\frac{1}{4}$ lb.; \$1.25 lb.; 5c plt.

311 Mixed Tall Nasturtiums. There is no flower of which you need seed in larger quantities for liberal plantings than Tall, or Climbing Nasturtiums. For the low price, this mixture is very choice. 10c oz.; 25c $\frac{1}{4}$ lb.; 80c lb.; 5c pkt.

TOM THUMB, DWARF OR BEDDING VARIETIES.

312 Aurora. Chrome-yellow, spotted and striped with deep crimson.	319 King Theodore. Dark maroon, bluish-green foliage. One of the best.
313 Beauty. Yellow-striped red.	320 Lady Bird. Rich golden yellow, barred with bright ruby crimson.
314 Chameleon. This interesting variety produces flowers of different colors on the same plant.	321 Luteum. Fine yellow.
315 Crystal Palace Gem. Sulphur spotted maroon.	322 Pearl. Creamy white.
316 Empress of India. Splendid variety, brilliant crimson with dark foliage.	323 Prince Henry. Golden yellow, marbled and spotted with brilliant scarlet.
317 Golden King. Brilliant yellow.	324 Rose. Light rose, splendid color.
318 King of Tom Thumbs. Intense deep scarlet flowers, dark foliage.	325 Ruby King. Brilliant crimson rose.
	326 Spotted King. Orange spotted crimson.
	327 Vesuvius. Brilliant salmon pink.

Price. Any of the above Dwarf sorts, 15c per oz.; 40c per $\frac{1}{4}$ lb.; 5c pkt.

328 McCULLOUGH'S PREMIER MIXTURE OF FINEST DWARF NASTURTIUMS.

This is our best mixture of the dwarf varieties. It is composed exclusively of the most elegant, large-flowered sorts, and the brilliantly colored flowers range through every shade and tint known in this favorite annual. This seed will produce a bed or border gorgeous beyond description.

Oz., 15c; $\frac{1}{4}$ lb., 40c; 1 lb. \$1.25; 5c pkt.

329 Mixed Dwarf Nasturtiums. We handle such large quantities of Dwarf Nasturtiums that we are able to offer this especially choice mixture at a very low price. You should plant this mixture very liberally. Oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 80c; 5c pkt.

Lobb's Climbing, Ivy-leaved and Variegated-leaved Nasturtiums are offered on next page.

NASTURTIUMS

(See also preceding page.)

LOEB'S CLIMBING NASTURTIUMS (*Tropaeolum Lobbianum*). Both foliage and flowers of this class are somewhat smaller than the Tall varieties, but the splendid profusion of bloom and the intensely brilliant colors of the flowers render them of the greatest value; 6 to 12 feet.

330 **Asa Gray.** The lightest color yet obtained; sulphur yellow, very delicate.....5c pkt.
 331 **Géant des Batailles.** Sulphur, spotted red.....5c pkt.
 332 **Lucifer.** Very dark scarlet, splendid.....5c pkt.
 333 **Napoleon III.** Golden yellow, spotted with brown.....5c pkt.

334 **Roi des Noirs.** Black-brown.....5c pkt.
 335 **Lobb's Finest Mixed.** This elegant assortment of Lobb's Climbing Nasturtiums is composed of the most brilliant colors in this class. Oz., 10c; $\frac{1}{4}$ lb., 30c.....5c pkt.

336 **Nasturtium, Madame Gunter's Hybrids.** A new climbing strain. For richness and variety of colors these new Hybrids have no equal among Nasturtiums. There are shades of rose, salmon, brightest red, pale yellow, either as self colors or spotted and striped. The foliage is mostly dark and contrasts very effectively with the rich colors, and are free and continuous bloomers; 15c oz.....5c pkt.

337 **Tropaeolum Canariense.** (Canary Bird Flower.) Bright yellow; 10 feet.....5c pkt.

NASTURTIUM IVY LEAVED. A new class with thick, green, lobed leaves, resembling those of the English Ivy. The flowers are of a delicate fringed formation and are borne in great abundance throughout the season.

338 **Tall Ivy Leaved Mixed;** 15c oz.....5c pkt.
 339 **Dwarf Ivy Leaved Mixed;** 15c oz.....5c pkt.

NASTURTIUM VARIEGATED LEAVED. The foliage is strikingly variegated, rendering the plants very ornamental even when not in flower, and when in bloom the effect is doubly enhanced. They are superb for garden culture and also make lovely pot plants.

340 **Tall Variegated Mixed.** All colors; 15c oz.....5c pkt.

341 **Dwarf Variegated Mixed.** All colors; 15c oz.....5c pkt.

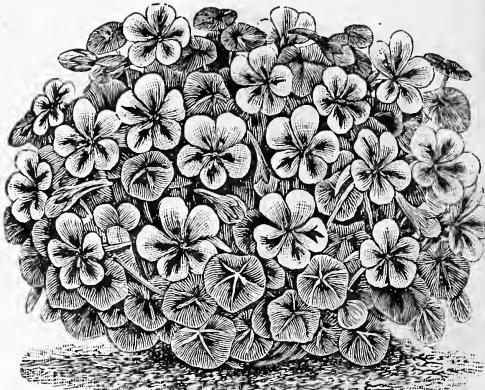
NASTURTIUM GOLDEN FOLIAGE. A striking and most desirable type for bedding and potting. The contrast between the clear golden yellow foliage and flowers are remarkable.

342 **Dwarf Golden Foliage.** Mixed colors; 15c oz.....5c pkt.

NIGELLA (Love in a Mist, or Devil in the Bush).

343 **Damascena.** A compact, free-flowering plant, with finely cut foliage, curious-looking flowers and seedpods; of easy culture, growing in any garden soil; hardy annuals; blue and white mixed; 1 foot.....5c pkt.

344 **Miss Jekyll.** A lovely variety with cornflower-blue blossoms; splendid for cutting.....10c pkt.



Dwarf Nasturtiums.

NICOTIANA. Ornamental plants, very effective both in foliage and flower; the flowering sorts continue in bloom throughout the season and produce their fragrant, tubular-shaped flowers in great profusion; hardy annual.

345 **Affinis.** Large, pure white flowers of delicious fragrance. If taken up in the fall, cut back and potted they will bloom all winter.....5c pkt.

346 **Affinis Hybrids.** These magnificent Hybrids have large flowers in many beautiful colors and brilliant shades, fragrant.....10c pkt.

347 **Sanderae Hybrids.** A showy and profuse flowering half-hardy annual, giving a continuous display of brilliant flowers through summer and autumn. The plant is of branching bushy habit, 2 to 3 feet high, and carry the flowers in clusters. The flowers measure from $1\frac{1}{2}$ to 2 inches across and remain open all day. Many colors, mixed.....10c pkt.

OXALIS. A splendid class of plants, with brilliant colored flowers and dark foliage, suitable for borders, greenhouse decoration, rock-work or baskets; half-hardy perennial.

348 **Finest Mixed.**.....5c pkt.

PRIMULA.

(Chinese Primroses)

This is indispensable for winter or spring decorations in the home or conservatory. The seed should be sown in light soil, but for final potting a richer soil is necessary, consisting of two parts loam to one each of well decayed manure and leaf-mold.

PRIMULA CHINENSIS FIMBRIATA.

349 **Alba Magnifica.** The finest pure white with bright yellow eye, beautifully fringed.....20c pkt.

350 **Chiswick Red.** Large brilliant scarlet, finely fringed.....20c pkt.

351 **Coerulea.** Fine blue; excellent.....20c pkt.

352 **Delicata.** Delicate rose; finely fringed.....20c pkt.

353 **Choicest Mixed.** This mixture contains nothing but the finest sorts of Chinese Primroses.....20c pkt.

PRIMULA OBCONICA.

354 **Primula Obconica Grandiflora Fimbriata.** Very large flowers, with nicely fringed and toothed petals. The flowers are produced in constant succession, ranging in color from white to rose; a beautiful pot plant.....10c pkt.

355 **Primula Obconica Gigantea.** This new variety is the finest yet introduced; of strong, vigorous growth with immense heads of large individual blooms. Varies in color from pale lilac to rose.....15c pkt.

356 **Primula Forbesi.** (Baby Primrose.) Very free-flowering, beautiful rosy lilac flowers. Fine for pots and bouquets. Seedlings begin to bloom 3 months after being sown.....10c pkt.

HARDY PRIMROSES.

These are among the best of the early spring-blooming plants. With a slight protection they will stand the winter, but will do better if protected by a cold frame.

Auricula.

Finest Mixed. Extra choice; saved from a prize collection.....10c pkt.

Veris (Polyanthus). Splendid colors; extra fine.....10c pkt.

Vulgaris.

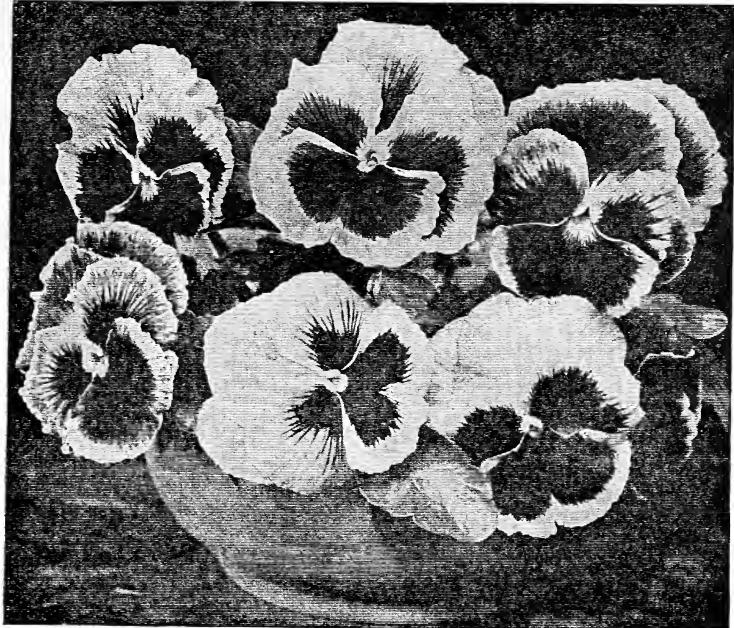
True Yellow English Primrose.....10c pkt.



Chinese Fringed Primrose.

357 **Auricula.** Finest Mixed. Extra choice; saved from a prize collection.....10c pkt.
 358 **Veris (Polyanthus).** Splendid colors; extra fine.....10c pkt.

359 **Vulgaris.** True Yellow English Primrose.....10c pkt.



McCullough's Premier Pansies.

are borne on long stems well above the foliage and are distinguished for their gorgeous and varied colorings and beautiful markings; of fine substance, velvety texture, perfect form, and giant size, frequently measuring 3 inches in diameter. The colorings are wonderfully rich and varied; every shade and tint of rose, canary-yellow, black, white, cream, lavender, garnet, sky-blue and orange are produced in endless variation. $\frac{1}{4}$ oz., \$2.00.

361 **McCullough's Special Mixture.** A superior mixture, selected from choice, large flowering strains of English, French and German growers. $\frac{1}{4}$ oz., \$1.25. 15c pkt.

362 **Giant Trimardeau, Mixed.** These are the largest flowered of all; a most showy class, of robust and very compact growth. The flowers are carried well above the leaves; splendid for bouquets, as the stems are long. Mixture of finest colors. $\frac{1}{4}$ oz., 60c. 10c pkt.

366 **Masterpiece.** The enormous large flowers are borne well above the foliage on strong stems. The petals of the flowers are waved or curled, and contain the richest colors. Each petal is distinctly marked with a large dark blotch, and most of the flowers are margined with a light, white or yellow edge. 15c pkt.

Bedding Pansies in Separate Colors.

For liberal plantings in the garden beds, these fine sorts are the most desirable.

- 367 **Azure Blue.**
- 368 **Black.**
- 369 **Dark Purple.**
- 370 **Dark Red.**
- 371 **Light Blue.**
- 372 **Pure White.**
- 373 **Purplish Violet.**
- 374 **Pure Yellow.**
- 375 **Yellow, Black Center.**
- 376 **Rosy Lilac.**

All above Bedding Pansies, each 5c pkt.; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.25.

GIANT TRIMARDEAU PANSIES.

(Separate Colors.)

- 377 **Bridesmaid.** White shining Rose, beautifully blotched.
- 378 **Canary Bird.** Giant five spotted variety. Bright golden yellow.
- 379 **Emperor William.** Indigo blue, blotched, black.
- 380 **Golden Queen.** Pure golden-yellow. Very fine.
- 381 **King of the Blacks.** Lustrous jet black.
- 382 **Lord Beaconsfield.** Lavender, heliotrope, purple.
- 383 **Peacock (Gloriosa).** Garnet, cream and blue.
- 384 **President Carnot.** White, large violet blotches.
- 385 **Snow-Flake.** Spotless, snow-white.

All above Giant Pansies, each, 10c pkt.; $\frac{1}{4}$ oz., 60c.

PANSY.

(The Favorite Flower.)
Pansies are the most popular of all flowering plants and are grown over the widest extent of country. They bloom most freely and produce largest flowers in cool, moist locations, or during early spring and late fall months. They flower profusely, however, even during the summer, from seed sown in open ground early in spring.

Pansy seed has been always a leading specialty with us, and we offer not only the largest and finest collection, but most carefully selected strains of each variety.

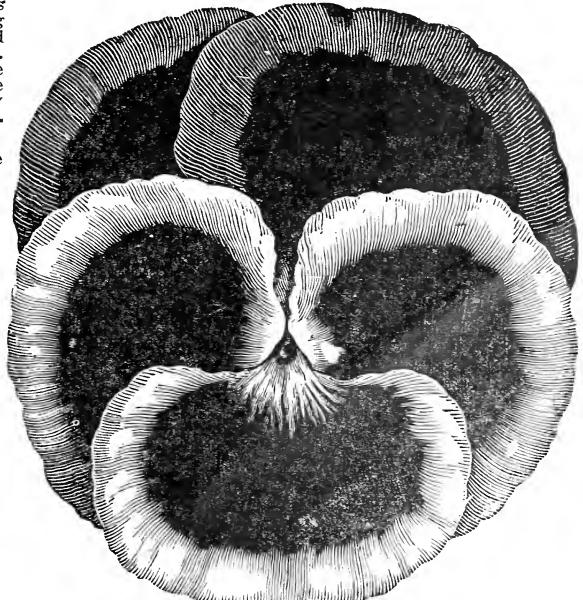
Seed germinates best while soil is still cool and moist. We would advise sowing in shallow drills in seed-bed early in spring when the trees are starting out in leaf, and again in September when the weather becomes cool. As above stated, plants from the spring-sown seed flower with great freedom throughout spring, summer and fall, while the stocky young plants grown in fall and winter produce the largest and finest flowers early the following spring.

The finest Pansies are, as a rule, shy seeders, which accounts for the difference in the price of the various mixtures offered.

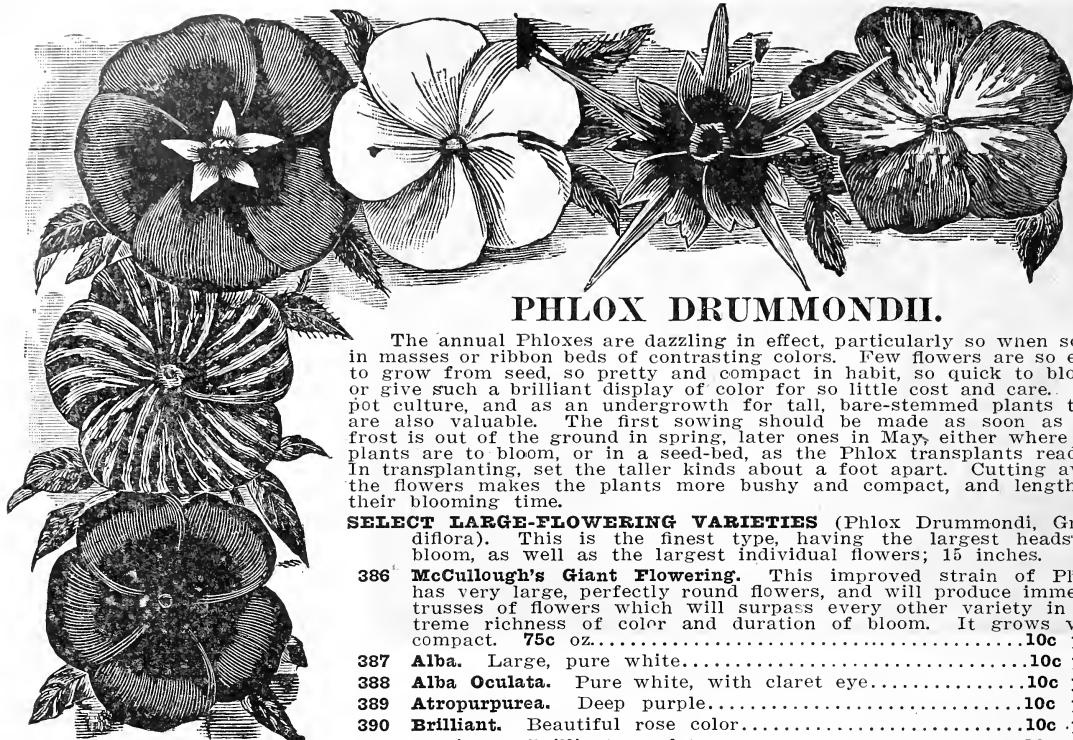
PANSIES IN MIXTURE.

360 **McCullough's Premier Pansies.** In this magnificent mixture of mammoth-flowering Pansies the blossoms

- 363 **Fine Mixture of Bedding Pansies.** The old-fashioned Pansies. Our mixture contains all the most showy and distinctly marked varieties. For freedom of bloom none surpass them. $\frac{1}{4}$ oz., 25c. 5c pkt.
- 364 **Bugno's Superb Blotched.** A French strain of extra large size, choicest colors, and with beautiful broad blotches and delicate pencilings. Finest Mixed. 20c pkt.
- 365 **Cassier's Giant.** A very showy and rich strain saved from very large and beautifully blotched model flowers. 15c pkt.



Type of McCullough's Premier Pansy.



McCullough's Giant.

PHLOX DRUMMONDII.

The annual Phloxes are dazzling in effect, particularly so when sown in masses or ribbon beds of contrasting colors. Few flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost and care. For pot culture, and as an undergrowth for tall, bare-stemmed plants they are also valuable. The first sowing should be made as soon as the frost is out of the ground in spring, later ones in May, either where the plants are to bloom, or in a seed-bed, as the Phlox transplants readily. In transplanting, set the taller kinds about a foot apart. Cutting away the flowers makes the plants more bushy and compact, and lengthens their blooming time.

SELECT LARGE-FLOWERING VARIETIES (*Phlox Drummondii, Grandiflora*). This is the finest type, having the largest heads of bloom, as well as the largest individual flowers; 15 inches.

386	McCullough's Giant Flowering. This improved strain of Phlox has very large, perfectly round flowers, and will produce immense trusses of flowers which will surpass every other variety in extreme richness of color and duration of bloom. It grows very compact. 75c oz.....	10c pkt.
387	Alba. Large, pure white.....	10c pkt.
388	Alba Oculata. Pure white, with claret eye.....	10c pkt.
389	Atropurpurea. Deep purple.....	10c pkt.
390	Brilliant. Beautiful rose color.....	10c pkt.
391	Coccinea. Brilliant scarlet.....	10c pkt.
392	Hermesina Splendens. Vivid crimson, very bright and effective. 10c oz.....	10c pkt.

393 **Phlox Drummondi, Mixed Colors.** Flowers not so large as the grandiflora type, but just as free-flowering and effective. Oz., 50c. 5c pkt.

LARGE-FLOWERING DWARF VARIETIES. A type combining the size of the individual flower and head of the finest Grandifloras with the Dwarf, compact growth of the Dwarf sorts, a perfect combination; and while they do not come in the large variety of colors found in the taller-growing type, the colors offered will be found very effective for beds, borders, etc., etc.; 8 inches.

394 **Brilliant Rose.** 10c pkt.
395 **Fiery Scarlet (Fireball).** 10c pkt.
396 **pure White (Snowball).** 10c pkt.

397 **Finest Mixed Colors (Dwarf Varieties).** 10c pkt.

PORTULACA. (Sun Plant.)

One of our finest hardy annual plants, of easy culture, thriving best in a rather rich, light loam or sandy soil, and luxuriating in an exposed, sunny situation; the flowers are of the richest colors, and produced throughout the summer in great profusion; fine for massing in beds, edgings of rock-work; 6 inches.

401 **Single Mixed Colors.** Per oz., 40c..... 5c pkt.
402 **Double Mixed.** Flowers perfectly double, of the most brilliant scarlet, crimson, white, yellow, etc. $\frac{1}{4}$ oz., 75c 10c pkt.

PYRETHRUM.

Handsome herbaceous plants of easy culture, and becoming more popular as they become better known.

P. Aureum is the well-known Golden Feather so much used for edging, carpet bedding, etc., while the others are most attractive hardy plants.

403 **Aureum (Golden Feather).** Yellow foliage. $\frac{1}{4}$ oz., 20c. 5c pkt.

404 **Hybridum.** Large flowering single mixed. Hardy perennial, bearing large Daisy or Cosmos-like flowers, ranging in color from light pink to deep red, with bright yellow centers; blooms in May and June and again in fall, and are one of the most graceful and long-lasting cut flowers; 2 feet. $\frac{1}{4}$ oz., 30c. 10c pkt.

HINTS ON THE CULTURE OF FLOWERS FROM SEED.

Much annoyance and disappointment may be saved by giving close attention to the following: Avoid especially deep planting, over-watering, under-watering or sowing too thickly.



Dwarf Phlox.

POPPIES.

Annual Poppies should be sown as early in the spring as possible where they are to remain, as they do not stand transplanting. Sow very thinly, preferably in cloudy weather or after a shower, barely cover the seed, press down firmly, and they will come up in a few days. If they come up too thickly, they must be thinned out to stand 3 to 4 inches or more apart if you wish best results. It is well to make several sowings at intervals to keep up a succession of bloom. If picked just before expanding the flowers will last several days. It is also advisable to pick the old flowers as soon as fallen, which will lengthen the blooming season quite a while.

SINGLE ANNUAL POPPIES.

405 **Select Shirley.** This is an extra fine strain of these charming Poppies. They are single and occasionally semi-double, and range in color from the purest white through the delicate shades of pale pink, rose and carmine to the deepest crimson and blood-red, while many are daintily edged and striped. In fact, so varied are they that scarcely any two flowers are exactly alike. Oz., 50c.....5c pkt.

406 **Admiral.** A single paeony-flowered variety of surpassing beauty, having large, smooth-edged flowers of glistening white, with a broad band of brilliant scarlet around the top. These two colors form a very striking contrast, and when planted in groups produce a magnificent effect.....5c pkt.

407 **Danebrog, or Danish Cross.** Very showy variety, producing large flowers of brilliant scarlet, with a silvery-white spot on each petal, forming a white cross.....5c pkt.

408 **Umbrosum.** Richest vermillion, with a deep, shining black spot at the base of each petal. 5c pkt.

409 **Flag of Truce.** Large, satiny-white flowers. 5c pkt.

410 **Tulip Poppy (Papaver Glaucum).** Large, tulip-like flowers of dazzling scarlet; 15 inches. Per 1/4 oz., 15c.....5c pkt.

411 **Fire Dragon.** Very showy flowers of brilliant deep scarlet, with black spots, margined white; 2 to 2 1/2 feet. Per 1/4 oz., 20c.....5c pkt.

412 **The Bride.** A beautiful variety with very large, pure white, perfectly-formed flowers. 5c pkt.

413 **Single Mixed.** Annual sorts. Oz., 20c. 5c pkt.

HARDY PERENNIAL POPPIES. Oriental and Bracteatum Poppies should be sown in early spring in the open ground as soon as it is fit to work. The plants disappear during July and August, appearing again as soon as the weather gets cool. When this fall growth starts is the time they should be transplanted to their permanent flowering quarters. It is well to mark the places they are planted with a stake to insure the roots against disturbance during their annual resting period.

420 **Bracteatum.** Immense orange-scarlet flowers, very similar to the Oriental Poppy. 1/4 oz., 20c.....5c pkt.

421 **Oriental (The Large Oriental Poppy).** A charming summer-flowering hardy plant, producing numerous leafy stems about 2 1/2 feet high, with large, deep crimson flowers, having a conspicuous black blotch on each petal; exceedingly showy.....5c pkt.

422 **Oriental Hybrids.** Beautiful Hybrids of the Oriental Poppy, producing flowers of immense size, 6 inches and over in diameter, and of many novel colors, such as salmon, cherry, etc. 1/4 oz., 50c. 10c pkt.

ICELAND POPPIES.

(*Papaver Nudicaule.*)

These are of graceful, neat habit, with bright green fern-like foliage, formed in tufts, from which issue slender stalks about 12 inches high, bearing their brilliant flowers in endless profusion; most useful for cutting, for which purpose pick when in bud; blooms the first year from seed, and if the seedpods are picked off continue in flower the entire season.

423 **Finest Mixed.** 1/4 oz., 20c.....5c pkt.

424 **New Hybrid Iceland.** The latest development in this lovely species, varying in color from sulphur-yellow through different shades of orange to chamois and salmony rose.....10c pkt.

McCULLOUGH'S SELECTED FLOWER SEEDS

Give best satisfaction. We test hundreds of varieties every year in our trial grounds, and know that you can not buy better flower seeds, no matter where you buy or what you pay.

Tulip Poppy.



Shirley Poppy.



PETUNIA.

For outdoor decoration or house culture few plants equal the Petunia in effectiveness. They commence flowering early and continue a sheet of bloom throughout the whole season until killed by frost; easily cultivated, only requiring a good soil and sunny position. There are two distinct kinds of Single Petunias—the Grandiflora sorts, with large flowers, and the small flowered section, which gives abundance of bloom.

NOTE.—It is well known that seed saved from the most carefully hybridized flowers produces but a small percentage of double flowers, the balance being singles of unusually fine quality. The weaker seedlings should be carefully saved, as these invariably produce the finest double flowers. The same is true of the single sorts, the large, strong seedlings usually being weedy, while the weaker seedlings produce the finest flowers of best colorings. It is best to sow Petunias indoors and transplant to the open in May. The Single Bedding kinds can be sown right out of doors in May.

DOUBLE LARGE-FLOWERING.

425 **McCullough's Splendid Double Fringed.** One of the finest strains in existence. The double flowers are very large, full, and beautifully formed, having the edges of the petals elegantly fringed.....35c pkt.
 426 **Grandiflora Double Mixed.** Choice strains of fine colors and large flowers.....25c pkt.

SINGLE LARGE-FLOWERING.

427 **McCullough's Mammoth Single.** This mixture is made by ourselves, and includes, besides the California Giants, all the colors of the large-flowering and fringed sorts, and the unsurpassed Superbissima varieties, with their delicately-veined throats in various colors, and their truly mammoth flowers. 20c pkt.

428 **Giants of California.** Flowers very large, in great variety of colors and markings, with broad, deep, yellow throats, veined...15c pkt.
 429 **Ruffled Giants.** New; very large-flowered; ruffled, fluted and fringed, striped and mottled, blotched and solid self-colors, with many color-combinations quite new in Petunias. 15c pkt.
 430 **Grandiflora Single, Finest Mixed.** Superb strain from show flowers; very large and of great substance.....15c pkt.

SINGLE BEDDING PETUNIAS.

431 **Brilliant.** Beautiful and effective compact variety; flowers brilliant carmine pink..10c pkt.
 432 **Dwarf Inimitable.** Compact-growing variety, flowers cherry-red, striped with white.10c pkt.
 433 **Snowball.** A fine compact variety, producing its pure white flowers throughout the entire season. Excellent for pots or bedding.10c pkt.
 434 **Alba.** Pure white, large flowers, desirable for cemetery beds or where large masses of white are wanted.....5c pkt.
 435 **Kermesina Splendens.** Rich crimson, fine 5c pkt.
 436 **Howard's Star.** A beautiful free-flowering strain, color crimson maroon with a clearly-defined five-pointed star of bluish-white. For bedding, baskets, vases, etc.....10c pkt.



Double Petunia.

SINGLE PETUNIAS—Continued.

437 **Striped and Blotched.** Fine for massing. 5c pkt.
 438 **Finest Single Mixed.** Superb strain bedding Petunias. Oz., \$1.50.....10c pkt.
 439 **Fine Single Mixed.** Very fine quality. Oz., 75c.....5c pkt.

RHODANTHE. The flowers should be gathered before they fully expand. If allowed to grow too long they open too much, and lose their beautiful bell form. Flowers everlasting. Half-hardy annuals.

440 **Maculata.** Mixed, all colors.....5c pkt.

RICINUS.

(Castor Oil Bean)

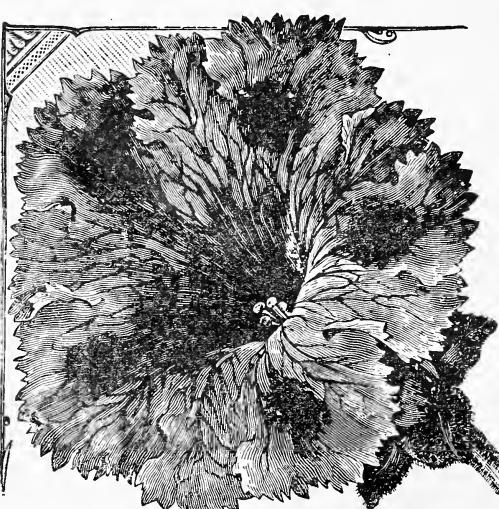
Known as "Castor Oil Plant" and "Palma Christa." Highly ornamental and stately growing plants of tropical origin, with luxuriant foliage of varied colors and brilliant colored fruit. When grown on lawns or in the garden as single specimens, they form a magnificent showy plant; height 8 to 15 feet. Start seed in pots, in March, and transplant as soon as the ground is warm. Half-hardy annuals.

441 **Cambodgensis.** The main stem and leaf stalks are of shining ebony black; the leaves are very large and richly colored, changing to different shades; 6 feet.....5c pkt.
 442 **Gibsonii Mirabilis.** Dwarf, branching habit, deep red foliage; 4 feet.....5c pkt.
 443 **Zanzibariensis.** An entirely new and distinct class of these handsome ornamental plants, which surpass in size and beauty all the varieties hitherto known. The plants attain great dimensions, presenting a splendid aspect with their gigantic leaves. As single specimens on the lawn or in large groups they are very effective; 8 to 10 feet. 5c pkt.

444 **Finest Mixed.** All varieties. Oz., 30c....5c pkt.

RUDBECKIA (Cone Flower).

445 **Bicolor Superba.** Fine free-flowering annual variety, growing about 2 feet high, forming a dense bush and producing in great abundance on long stems its bright flowers. The disc is brown, the florets golden-yellow, with large, velvety-brown spots at the base; very effective and useful for cutting.....10c pkt.
 446 **Purpurea (Giant Purple Cone-Flower).** A most interesting hardy perennial, producing all summer large, showy, reddish-purple flowers; about 4 inches across, with a remarkably large cone-shaped center of brown; thickly set with golden tips in spiral lines.....10c pr.



Petunia, McCullough's Mammoth.

SALVIA.

(Flowering Sage).

The Scarlet Sage has long been a favorite bedding plant, also grown for conservatory decoration, bearing long spikes of flowers in great profusion from July till frost; half-hardy perennials, blooming the first year from seed, which should be sown as early as possible, either indoors or in a hotbed, and the young plants transferred to their flowering quarters when the weather has become settled and warm. May also be sown in the open ground in May.

447 **Splendens** (Scarlet Sage). One of the finest summer and fall plants, with magnificent brilliant scarlet flowers; 2 feet, $\frac{1}{4}$ oz., 50c.....5c pkt.

448 "Bonfire," or "Clara Bedman." This is one of the finest of the Scarlet Sages, growing in a compact bush about 2 feet high by 2 feet in diameter. Its erect spikes of flowers of brilliant scarlet stand clear above the dark-green foliage and completely cover the plant. It attracts immediate attention in the garden, and is one of the most effective and gorgeous plants in cultivation.....10c pkt.

449 **Ball of Fire.** The most compact type of Scarlet Sage yet introduced, and popular for beds or borders requiring a variety of dwarfer habit than the regular Scarlet Sage or the variety "Bonfire".....10c pkt.

450 **Zurich.** Extra early flowering variety. The plants are dwarf and compact, and commence to produce their large brilliant flowers early in July and continuing to bloom until killed by frost.....10c pkt.

SALPIGLOSSIS.

The Salpiglossis is one of the greatest favorites among annuals, partly because of its easy culture, but principally for its beautiful, almost orchid-like flowers, which it produces from early summer until late fall. Seed should be sown early in spring in a hotbed or window and transplanted when weather is settled or directly out of doors after danger of frost.

451 **Emperor.** This variety forms only one leading stem, and bears on its summit a veritable bouquet of the most beautiful flowers, each one richly veined with gold.....10c pkt.

452 **Finest Mixed.** All colors.....5c pkt.

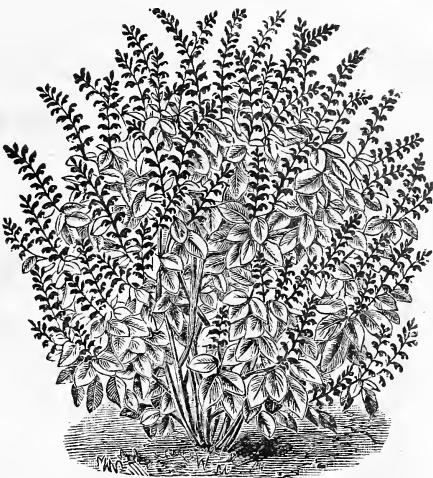
SMILAX (Myrsiphyllum Asparagoides).

453 In many respects the Smilax is the most useful, and it is certainly one of the most graceful climbers which adorns the greenhouse or conservatory; for bouquets and floral decorations it is indispensable. $\frac{1}{4}$ oz., 20c.....5c pkt.

STOKESIA (Cornflower Aster).

454 **Cyanea.** A rare and beautiful hardy perennial. The plant grows about 24 inches high, each bearing from 20 to 30 handsome lavender-blue cornflower-like blossoms; in bloom from July till frost. One of the choicest subjects for the hardy border and indispensable for cutting.....10c pkt.

SHASTA DAISY. (See Chrysanthemum.)



Salvia Splendens. (Scarlet Sage.)

The Salpiglossis is one of the greatest favorites among annuals, partly because of its easy culture, but principally for its beautiful, almost orchid-like flowers, which it produces from early summer until late fall. Seed should be sown early in spring in a hotbed or window and transplanted when weather is settled or directly out of doors after danger of frost.

SCABIOSA.

(Mourning Bride, Sweet Scabious, Pincushion Flower.)

Seed can be sown any time in the spring after danger of frost is past. They grow about 2½ feet high, and come into bloom early in July, and continue without interruption until hard frost. The beautiful flowers in exquisite shades are borne on long stems, and when cut keep in perfect condition for the best part of a week. They make effective borders or beds, and no garden is complete without Scabiosas, especially where flowers are wanted for cutting.

455 **Azure Fairy.** Lavender-blue.....5c pkt.

456 **Crimson.**.....5c pkt.

457 **King of the Blacks.** Black-purple.....5c pkt.

458 **Lilac.**.....5c pkt.

459 **Rose.**.....5c pkt.

460 **White.**.....5c pkt.

461 **Mixed.** All colors of the improved large-flowering.....5c pkt.



Scabiosa.

HARDY PERENNIAL SORTS.

462 **Caucasica** (Blue Bonnet). One of the handsomest of hardy perennials, especially valuable for cutting, the blooms lasting a long time in water; lilac-blue; 3 feet.....10c pkt.

463 **Japonica.** A hardy perennial variety from Japan, forming bushy plants 2½ feet in height by the same through, and bearing on long, wiry stems beautiful, artistic, lavender-blue flowers, extremely floriferous, producing a continuous crop all summer. Fine cut flower.....10c pkt.

SCHIZANTHUS. (Butterfly, or Fringe Flower.)

This is one of the airiest and daintiest flowers imaginable, especially adapted to bordering beds of taller flowers and those of a heavier growth. The seeds germinate quickly and come into bloom in a few weeks from sowing. The fluorescence is such as to completely obscure the foliage, making the plants a veritable pyramid of the most delicate and charming bloom. If a continuous show of bloom is desired, it will be well to make sowings of seed in a sheltered bed and transplant into the borders as required. The Schizanthus make admirable pot plants for the house, and are charming for window boxes in winter. For this purpose sow in the autumn.

464 **Dwarf Large-Flowered.** A new variety, forming compact pyramidal plants a foot high, literally covered with large, beautiful orchid-like flowers in a bewildering range of color.....10c pkt.

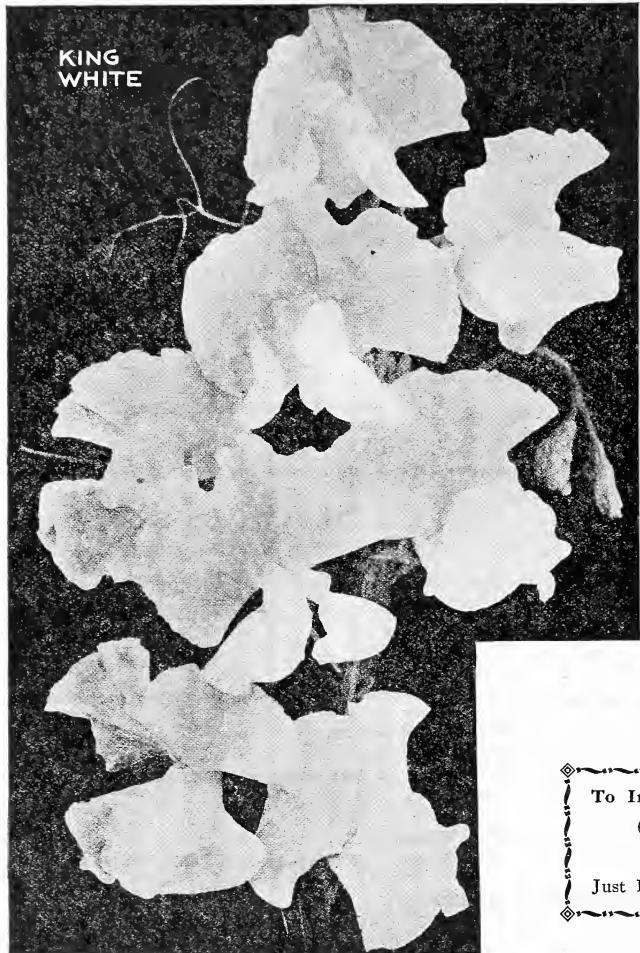
465 **Wisetonensis.** A variety largely used as a pot plant for the house or conservatory. It is remarkably free-flowering, and presents a beautiful appearance with its myriads of blooms, the ground color of which is white, dotted with delicate rose. A very shy seeder. 15c pkt.

466 **Mixed.** A splendid mixture of the regular type.....5c pkt.

WILD FLOWER GARDEN MIXTURE.

These mixed flower seeds embrace varieties of such easy-growing and pretty flowers as are suitable for forming a wild flower garden. They are very useful for woodland walks, roadsides, railroad embankments, and for sowing alongside of fences and on untidy bare spots of ground which are so frequently unsightly, and which, if properly cared for and kept free from weeds, can be made to produce a continual display of bloom during the summer. See page 55.

New Spencer Sweet Peas



KING WHITE

564

King White

King White. The grandest of all White Sweet Peas and of the most up-to-date Spencer form. It is manifestly the largest of White Spencer and the buds are of unusual size before opening. The stems are long and stout and bear practically always four blossoms. Too much cannot be said in praise of this unique new white Spencer. It has all the first-class qualities which go to form Sweet Pea perfection. While of truly gigantic proportions the flowers are most exquisitely finished in every detail. King White has such marvelous substance—that it is entirely free from the objectionable reflexing habit so generally found in the standard of other whites. The grand flowers are borne almost invariably in "fours" upon stout stems of great length. The bold, widely expanded standard is waved exquisitely, while the wings, also well waved, are beautifully placed. The plants are exceptionally vigorous in growth with distinctive rich green foliage, and wonderfully profuse in bloom for a long season. King White is the one white for both exhibitors and market growers, while it is indispensable in every up-to-date amateur's collection. Per pkt., 15c; 2 pkts. for 25c.

To Insure Good Results Buy Your Seeds at the

Original McCullough's Store

316 Walnut Street

Just Below Fourth St.

Our Only Retail Store

Jessie Cuthbertson Spencer

567 **Jessie Cuthbertson Spencer.** A fine bold stripe or flake of perfect Spencer type. This is the Spencerized form of Jessie Cuthbertson, the well-known and popular grandiflora. Jessie Cuthbertson Spencer is a primrose ground, well marked with stripes, blotches and flakes of crimson pink. The general effect in the bunch is golden rose and very effective. Anyone with a fondness for unusual markings in Sweet Peas will be delighted with Jessie Cuthbertson Spencer. 15c pkt., 2 pkts for 25c.

New Margaret Madison

568 **New Margaret Madison.** A large perfect Spencer, of delicate azure blue, slightly tinted with mauve. An exceedingly chaste variety of unsurpassed beauty. The flowers are a clear azure-blue self—a color that always attracts and is so effective in bouquets or boutonnieres. The flowers are of good size, both standard and wings being delightfully waved and frilled. Per pkt..... 25c

565

Wedgwood. The best Blue Spencer. This beautiful novelty is likely to become quite as popular in the Sweet Pea world as the famous china is among connoisseurs. Wedgwood is a unique shade of lovely light blue and completely eclipses such varieties as Flora Norton Spencer, Princess Mary and Zephyr. The flowers, of good size and substance, are well waved in both standard and wings; they are borne almost uniformly in four-flowered sprays upon long stout stems. Wedgwood is a color long sought for in Sweet Peas and will be eagerly welcomed by all lovers of this beautiful annual.

Per pkt., 15c..... 2 pkts. for 25c

New Miriam Beaver

566 **New Miriam Beaver.** Is a bright apricot pink on a primrose ground—a little deeper at the margins and showing pure primrose at the base of the petals. Of perfect Spencer form, four blossoms on the stem, all gracefully set. Per pkt..... 25c

For cultural directions, and other varieties of Sweet Peas see Pages 66 and 67.

Sweet Pea Margaret Atlee

THE LARGEST AND FINEST
SWEET PEA YET INTRODUCED

569 Margaret Atlee. This charming novelty is acknowledged by leading experts of America and England to be the best cream-pink yet obtained; and practically a new shade of pink. The lovely flowers, uniformly of most advanced Spencer type, are a rich glowing pink on cream ground, softly suffused with salmon in the standard, while the wings are a pleasing shade of pinkish rose and salmon. There is a distinct blotch of buff-primrose at base of both standard and wings which is particularly effective, lighting and brightening the entire flower most wonderfully. So many people who have seen bouquets of Margaret Atlee have exclaimed, "Are those really Sweet Peas?" The flowers are of extraordinary size, often measuring two and one-half inches across the standard, exquisitely waved, and freely produced in "fours" on long stout stems. So vigorous is the growth that the vines give many duplex or double blooms. Under ordinary culture they are delicate and refined to a degree. Under special culture for exhibition flowers they produce unusually large thick petals and enormous stems and leaves. It is not uncommon to see stems 22 inches long. **25c per pkt.**

McCullough's PREMIER Mixed Sweet Peas

THE FINEST AND MOST COM-
PLETET MIXTURE EVER
OFFERED.

499 A truly superb mixture blended by us with extraordinary care from named varieties of the most approved large-flowered type, including recent American and European varieties, as well as a great many Spencer and Unwin sorts and other hybrids insuring a gorgeous color effect.
10c oz., 35c $\frac{1}{4}$ lb., \$1.25 lb., 5c pkt.

Spencer or Orchid-flowered Sweet Peas Mixed

501 This mixture contains the large Spencer or orchid-flowered varieties, and no one need hesitate about purchasing this mixture, as the best of care is taken to have all the colors of the beautiful crumpled or waved varieties to blend.
20c oz. 60c $\frac{1}{4}$ lb....10c pkt.

New Sweet Pea Margaret Atlee

The Spencer
Supreme

Life size as grown by ordinary
culture



SWEET PEAS.

Flowering Peas are among the most useful and beautiful of all our hardy annuals. Every year our list is carefully revised, with a view to keeping it strictly up to date.

How to Grow Sweet Peas.

The principal essential for the best success is a cool, deep, moist soil, and a sunny situation. The ground should be prepared deep and rich. Fall preparation, where possible, is preferable, but if done in the spring, use no green manure. Bone meal is good if old rotted manure can not be obtained. Sow early, even before the frost is out of the ground, as Sweet Peas need the cold, moist spring ground to make the root growth. In the latitude of Cincinnati, February is not too early. In the South, sow in the fall. Sow the seed in deep furrows, the bottom of which must be at least 6 inches below the level of the soil; this is to guard against a summer drought. Cover the seeds only one inch, after which the furrow is still five inches deep. When the plants are 2 or 3 inches high thin out to 2 inches apart and fill in another inch or so of soil around the plants, always leaving a portion of the plant above the surface; do this at intervals until the furrow is nearly full; it should always remain a little hollow, to hold the rains, and to allow water to be applied by the bucketful when necessary.

During dry weather they should be watered thoroughly and frequently and given an application of liquid manure once a week. A mulch of hay or rakings from the lawn will be found beneficial during hot weather. The flowers should be cut as often as possible, and all withered blooms should be removed, to prevent the plants from running to seed, which would stop them from continuing in bloom.

LARGE-FLOWERING NAMED VARIETIES.

The Following Named Varieties, 5c pkt; 15c oz.; 50c $\frac{1}{4}$ lb.

467 **America.** Crimson scarlet, striped on white. Large size.
 468 **Aurora.** Standard and wings white, shaded with salmon.
 469 **Black Knight.** Pure maroon, self-colored, large size.
 470 **Blanche Ferry.** Rose pink standard, white wings.
 471 **Coccinea.** Cerise red, self-color, very bright and effective.
 472 **Dorothy Eckford.** The finest pure white. The plant is short-jointed, and grows an enormous mass of bloom.
 473 **Earliest of all.** Rose pink standard, with white wings.
 474 **Earliest White (Burpee).** The earliest white.
 475 **Flora Norton.** Pure bright self-blue; quite distinct.
 476 **Gladys Unwin.** Bright light pink, a little deeper at the edges. Very largest size open form.
 477 **Helen Pierce.** Pure white, veined, mottled and marbled with bright blue.
 478 **King Edward VII.** A lovely, intense, bright crimson. A giant flowered variety with strong stems and growth; does not burn in the sun.
 479 **Lady Grisel Hamilton.** Beautiful pale lavender; in form it is one of the most advanced giant flowering type.
 480 **Lord Nelson.** Standard dark navy blue; wings shaded purple.
 481 **Lottie Eckford.** White ground, shaded and edged with light blue and mauve; large size.
 482 **Lovely.** Standard and wings deep rose at base, shading to pale pink and blush at edges; large size.
 483 **Mont Blanc.** Splendid pure white; early.
 484 **Miss Wilmott.** Standard orange pink; wings rose tinted orange.
 485 **Mrs. Alfred Watkins.** A superb pale pink, of large size with a bold wavy standard. Large, open and wavy form.
 486 **Mrs. E. Kenyon.** A beautiful primrose color; a bold giant flower; a most desirable variety.
 487 **Mrs. Geo. Higginson, Jr.** A clear, delicate light blue.
 488 **Mrs. Walter Wright.** Rose purple, self-colored. It changes to a bluish purple as it fully matures.
 489 **Navy Blue.** Standard indigo; wings indigo shaded to navy blue.
 490 **Nora Unwin.** Pure white, very large, open, wavy form, free-flowering with long stem. One of the finest.
 491 **Othello.** Standard and wings dark maroon.
 492 **Prima Donna.** Bright blush pink; large size and fine form.

MIXTURES OF SWEET PEAS. All of the mixtures offered below have been made up by ourselves out of the finest named varieties, insuring a satisfactory result in color, and must not be confounded with cheap grades, which are harvested in mixture and always contain a large proportion of dull and undesirable colors.

499 **McCullough's Premier Mixed.** This mixture contains all the best-named large-flowering varieties and novelties, and is undoubtedly the finest and most complete mixture ever offered, being put up by ourselves from named varieties only, in the proper proportion of colors. 10c oz.; 35c $\frac{1}{4}$ lb.; \$1.25 lb. 5c pkt.

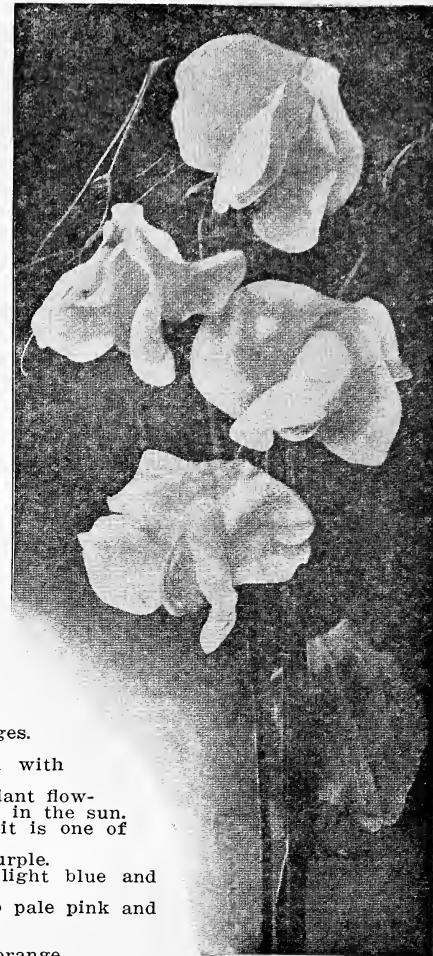
500 **Fine Mixed.** A very good mixture of over 20 varieties. $\frac{1}{4}$ lb., 20c; lb., 75c.

501 **Spencer Orchid-Flowered Mixed.** This mixture contains the large orchid-flowered varieties, and no one need hesitate about purchasing this mixture, as the best of care is taken to have all the colors of the beautiful crumpled or waved varieties to blend. Oz., 20c; $\frac{1}{4}$ lb., 60c.....10c pkt.

493 **Prince of Wales.** Bright rose; large flower; the prettiest of the bright red varieties.
 494 **Queen Alexandra.** Intense scarlet; flower of finest form; very free flowering.
 495 **Royal Rose.** Standard deep rose shading with pink; wings light pink; very large flower.
 496 **St. George.** The bold expanded standard is a rich orange color, while the large wings are orange carmine.
 497 **Shasta.** Pure white; very large size; open form. The petals both standard and wings, are wavy on the edges.
 498 **Stella Morse.** Primrose yellow, tinged with blush pink.

MIXTURES OF SEPARATE SHADES. For such as prefer to grow the various colors separate we have prepared the following mixtures out of the finest named sorts.

502 **Pink Shades.** Light to deep pink.
 503 **Red Shades.** Bright rose to dark scarlet.
 504 **Lavender and Blue Shades.** Lavender to heliotrope.
 505 **Purple and Maroon Shades.** All the dark colors.
 506 **White Varieties, Mixed.**



Any of the above mixed shades, 5c pkt.; 15c oz.; 50c $\frac{1}{4}$ lb.

ORCHID-FLOWERED SWEET PEAS.

The introduction of this type has created new interest and added to the popularity of Sweet Peas. They are quite distinct from the standard sorts, having large, round, open flowers of extraordinary size, usually measuring 2 inches across, with wavy standards and wide-spreading wings, a very large percentage bearing 4 of these immense blossoms to the stem, which is long and strong, making them of exceptional value for cutting.

507 **Asta Ohn Spencer.** Flowers of large size, lavender suffused with mauve; standard and wings waved and fluted. The stems are long and sturdy. 20c $\frac{1}{2}$ oz.; 35c oz. 10c pkt.

508 **Beatrice Spencer.** Standard white, tinted with soft pink and buff, while each wing has a blotch of brighter pink near the base. 20c $\frac{1}{2}$ oz.; 35c oz. 10c pkt.

509 **Countess Spencer.** Bright clear pink, showing a little deeper at the edges. 30c oz. 10c pkt.

510 **Enchantress.** Bright pink shading, a little deeper at the edges. The form is open and the margins of the petals are wavy; flowers very large. 30c oz. 10c pkt.

511 **Ethel Roosevelt.** Flowers of the largest and most perfect Spencer type. The ground color is a soft primrose or straw color, overlaid with flakes and splashes of blush-crimson. 30c $\frac{1}{2}$ oz.; 50c oz. 15c pkt.

512 **Flora Norton Spencer.** Bright blue with a little tint of purple. Flowers very large. 20c $\frac{1}{2}$ oz.; 35c oz. 10c pkt.

513 **Florence Morse Spencer.** Delicate blush, with pink margin; very large, open, wavy form, with long stems. 20c $\frac{1}{2}$ oz.; 35c oz. 10c pkt.

Orchid-Flowered Mixed. (See Mixtures on preceding page).

514 **George Herbert.** Bright rosy carmine color. 20c $\frac{1}{2}$ oz.; 35c oz. 10c pkt.

515 **King Edward Spencer.** The largest and best Scarlet Sweet Pea. The large flowers are waved and crinkled; standard and wings deep rich carmine scarlet. 20c $\frac{1}{2}$ oz.; 30c oz. 10c pkt.

516 **Lovely Spencer.** Bright pink at the base of both standard and wings, shading to a softer pink and becoming almost white at the edges. 25c $\frac{1}{2}$ oz.; 40c oz. 10c pkt.

517 **Marie Corelli.** The wings are a pure rich rose crimson, while the standard shows a tint of cherry red. 25c $\frac{1}{2}$ oz.; 40c oz. 10c pkt.

518 **Primrose Spencer.** Primrose or creamy yellow; standard and wings waved. The best of this color. 30c oz. 10c pkt.

519 **Senator Spencer.** The color is a varying combination of deep claret and chocolate, striped and flaked on a ground of light heliotrope, standard and wings are marked the same. 20c $\frac{1}{2}$ oz.; 35c oz. 10c pkt.

520 **White Spencer.** The finest White Sweet Pea with large fluted and wavy petals; long, stout stems. 30c oz. 10c pkt.

521 **W. T. Hutchins.** Light apricot overlaid with blush pink. 25c $\frac{1}{2}$ oz.; 40c oz. 10c pkt.



STOCKS.

(Gilliflower.)

Stock seed may be sown in the open ground, or in the hotbed or cold frame, but if transplanted, let this be done when the plants are small, just out of the seed-leaf, or the plants become slender and never make good plants nor flower well. A little shade from the hottest sun, and water in the evening, will add much to the size, beauty and durability of the flowers. Make the soil deep and rich.

522 **McCullough's Cincinnati Market.** A fine perpetual blooming stock, producing one long, sturdy spike, closely set with enormous double flowers. A grand variety. 10c pkt.

523 **Beauty of Nice.** A handsome winter stock of quick growth; flowers large size, of a delicate flesh pink. 10c pkt.

524 **Princess Alice (Cut and Come Again).** If sown early it commences blooming in June and continues until frost. It throws out numerous side branches bearing clusters of very double, pure white, fragrant blossoms, and is excellent for cutting. 10c pkt.

GIANT PERFECTION TEN WEEK STOCK. This magnificent strain is without a rival for open-ground planting, attaining a height of 2½ feet. The spikes of bloom are long, and the individual flowers are enormous in size and very double.

525 **Light Blue.** 10c pkt.
 526 **Rose.** 10c pkt.
 527 **Scarlet.** 10c pkt.
 528 **White.** 10c pkt.
 529 **Finest Mixed Perfection.** All colors. 10c pkt.
 530 **Dwarf German Mixed.** All Colors. 5c pkt.

SWEET WILLIAM (*Dianthus Barbatus*). The double and single varieties, with their rich and varied colors, produce a charming effect for beds and borders. Seed planted early will bloom in the fall. It is better to sow seed every year to have young plants, as they flower more freely. Hardy biennial; height 1 to 1½ feet.

531 **Holborn Glory.** This strain is a large-flowered selection of the Auricula-Eyed section, the most beautiful and admired of all Sweet Williams. The individual flowers and trusses are of extraordinary size, and the range of color, all showing a clear, white eye, is superb. 10c pkt.

532 **Single Mixed.** A very choice assortment of all the best single-flowering varieties. 5c pkt.

533 **Double Mixed.** This mixture you will find of very superior quality; containing all colors and shades. 5c pkt.

SUNFLOWER. (See *Helianthus*.)

SWEET SULTANS. (See *Centaurea*.)

SNOW-ON-THE-MOUNTAIN. (See *Euphorbia*.)



Sweet William.

THUNBERGIA.

(Black-Eyed Susan.)

534 Beautiful, rapid-growing annual climbers, preferring a warm, sunny situation; used extensively in hanging baskets, vases, low fences, etc.; very pretty flowers in buff, white, orange, etc., with dark eyes; mixed colors; 4 feet; $\frac{1}{4}$ oz., 25c.....5c pkt.

TORENIA.

535 *Fournieri*. A very fine annual; a splendid plant for vases, hanging baskets, borders, etc.; covered the entire season with a mass of bloom. Sky blue, with three spots of dark blue, bright yellow center.....10c pkt.



Thunbergia.

VINCA.

(Madagascar Periwinkle.)

Ornamental free-blooming plants and one of the most satisfactory flowering bedding plants we have. It is best to start the seed early indoors or in a hotbed, but they begin blooming in August from seed sown out of doors in May, or as soon as the ground is warm, continuing until frost; or they may be potted and kept in bloom through the winter; a fine cut flower, every bud opening when placed in water; 2 feet. (See cut.)

536 *Rosea*. Rose, dark eye.

10c pkt.

537 *Alba*. White, crimson eye.....10c pkt.

538 *Alba Pura*. Pure white.

10c pkt.

539 *Mixed*. $\frac{1}{4}$ oz., 25c.

5c pkt.

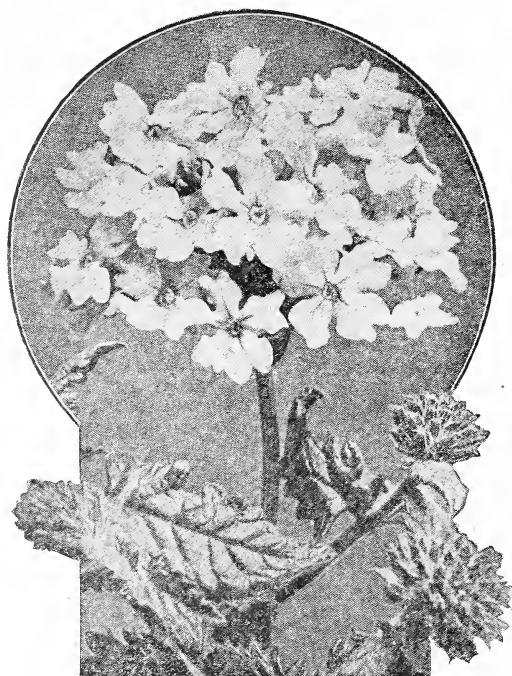
VIOLET. (*Viola Odorata*) A great favorite, suitable for groups or borders, and much in demand on account of its profusion of bloom and delightful fragrance. Violet seeds germinate very slowly. Hardy perennial.

540 **Finest Mixed.** All varieties mixed ..10c pkt.

We promise good seeds, courteous treatment and quick service. Send your order NOW.



Vinca Rosea.



Mammoth Verbena.

VERBENAS.

Nothing is easier to grow, and the display they give during the summer is equalled only by the Phlox. To have the best results seeds should be started early (in the house) and the young plants bedded out by the first of June. Set them a foot or more apart, and in a month, at least, they will be so grown and matted together that one can hardly tell one plant from another. A circular raised mound is a good place on which to plant Verbenas. The bed should have the full sun, and a good supply of water. Verbenas are easier grown from seeds than from cuttings, and such plants are more

vigorous and free flowering. Sow them early, and they will bloom constantly from June until frost. The lavish and showy display of flowers in a Verbena bed is one of the most attractive.

541 **McCullough's Mammoth Mixed Verbenas.** Our strain of these elegant mammoth-flowering Verbenas will make beds and borders in the garden of the greatest brilliancy. These are our best Verbenas, and for enormous flowers of rich and superb colors are unsurpassed. They bloom most profusely. Our mixture contains every desirable color and shade. $\frac{1}{8}$ oz., 25c; $\frac{1}{4}$ oz., 40c.

10c pkt.

542 **Fine Mixed.** A very satisfactory assortment, containing many fine colors and shades. $\frac{1}{4}$ oz., 15c; $\frac{1}{4}$ oz., 25c ..5c pkt.

543 **Mammoth Defiance.** Brilliant scarlet, fine for bedding ..10c pkt.

544 **Mammoth Candidissima.** Large trusses of pure white flowers ..10c pkt.

545 **Mammoth Blue.** Bright blue, in various shades.

10c pkt.

546 **Mammoth Pink.** Bright shades of pink; fine.

10c pkt.

547 **Lemon Verbena.** (*Aloysia citriodora*) Every garden should have a few plants of this fragrant favorite. Its pale green delightfully scented foliage goes well with any flower.....10c pkt.

WALLFLOWER. Well known, deliciously fragrant, half-hardy perennials; blooming early in the spring, with large, conspicuous spikes of beautiful flowers; they should be protected in a cold frame in the winter, and planted out in May; are much prized for bouquets.

548 **Double, Finest Mixed** ..10c pkt.

549 **Single, Finest Mixed** ..5c pkt.

XERANTHEMUM. (Everlasting or Immortelle.) Showy double free-flowering border annuals. If the flowers are cut in the bud state they may be dried and used for winter bouquets.

550 **Finest, Mixed Double.** All colors.....5c pkt.

ZINNIAS.

(Youth and Old Age).

The Zinnia is one of the most brilliant and showy of annuals, and has long been a general favorite. The seed can be sown early in the hotbed or light window, and transplanted, or sown later in the open ground. They come into flower early in the summer and keep on blooming until hard frost.

551 **Mammoth-Flowering Mixed.** The plant forms a handsome bush, 2 feet high, and the mammoth, perfectly-formed double flowers, measuring 5 to 6 inches across of most intense and brilliant colors, comprising new and rich hues.....10c pkt.

552 **Queen Victoria.** A pure white variety. The flowers are perfectly double, of fine form and measure about 4 inches across. This excellent variety comes true from seed.....10c pkt.

553 **Curled and Crested.** A beautiful strain, the petals being twisted, curled and crested into the most fantastic and graceful forms. The colors comprise all the beautiful shades characteristic of the Zinnia. 10c pkt.

554 **Zebra.** A very pretty strain of striped flowers, as the colors vary on each plant, they present a curious as well as beautiful appearance.....10c pkt.

LARGE FLOWERING DWARF. This we consider the best type for general use, forming bushy, compact plants not over 2 feet high, and bearing perfect double flowers as large as the taller-growing sorts.

555 **Flesh-pink.** Delicate shade. $\frac{1}{4}$ oz., 20c.....5c pkt.

556 **Dark Scarlet.** Very rich. $\frac{1}{4}$ oz., 20c.....5c pkt.

557 **Canary.** Clear yellow. $\frac{1}{4}$ oz., 20c.....5c pkt.

558 **Jacqueminot.** Rich crimson. $\frac{1}{4}$ oz., 30c.....5c pkt.

559 **Orange.** Striking. $\frac{1}{4}$ oz., 20c.....5c pkt.

560 **Scarlet.** Bright and fiery. $\frac{1}{4}$ oz., 20c.....5c pkt.

561 **White.** $\frac{1}{4}$ oz., 20c.....5c pkt.

562 **Salmon Rose.** Beautiful shade. $\frac{1}{4}$ oz., 20c.....5c pkt.

563 **Finest Mixed.** All colors. Oz., 50c.....5c pkt.

Mammoth Flowering Zinnia.

“WILD GARDEN” FLOWER SEED.

Each package contains about 100 varieties of hardy flower seeds mixed together, and wherever planted will insure something new almost every day. Is suitable for sowing in shrubbery, under trees and in beds on which no care will be bestowed, or even for sowing in exposed situations, where wildness is preferred to order and precision. To those who can not bestow the necessary care required in a neatly laid out flower garden, the “Wild Garden” presents a substitute which for its unusual and varied effect, for cheapness and small amount of labor necessary for its construction, has no rival.

600 **Dwarf Sorts.** Growing from 12 to 18 inches high. 25c per oz.....5c pkt.

601 **Tall Sorts.** Growing from 18 to 36 inches high. 25c per oz.....5c pkt.

602 **Climbing and Trailing Sorts.** Fine for hiding fences, brush and rubbish heaps. 25c oz.....5c pkt.



“Wild
Garden”
Flowers.



Dwarf Zinnia.

SUMMER FLOWERING BULBS AND ROOTS.

Our Prices Include Postage on Single Bulbs and by the Dozen, Except where otherwise noted.
Bulbs Quoted by the Hundred are not sent Prepaid.



Amaryllis Johnsonii.

They are now used extensively for outdoor planting. Give them a partially shaded position in a light soil and well drained position, and they will give more bloom than any other plant which will grow in such a place.

A soil that will grow it to perfection is turf scaped from the bottom of old sod—one part, and one part sand. Mix these well together and you have a compost that is friable, porous, and well adapted to any plants having fine, fibrous roots. It is more satisfactory to apply plant-food when needed, and in such quantities as seem to be required, than to make the soil very rich from the start.

When the tubers of these Begonias are procured, spread them out on pans of moss, which should be kept moist and warm. Here they should be left until sprouts appear. It is not necessary to sprout your tubers in this manner if you can tell which is top or bottom of them, but frequently they look so much alike on both sides that you can not be sure which is which until sprouts appear, and it will not do to plant them wrong side up. Give each tuber a five-inch pot, if grown singly, or use three tubers to a seven-inch pot. Settle the tuber down into the soil to the depth of an inch. Water very cautiously until active growth begins, then increase the amount. But at no time during its existence will the plant require more than enough to make—and keep—the soil moist all through. Good drainage should be provided to guard against the dangers of overwatering.

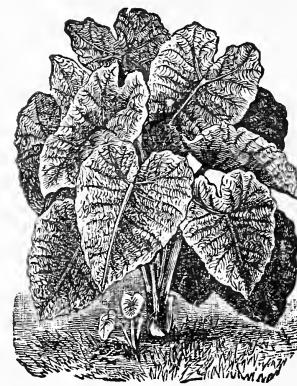
Single. Scarlet, white, pink, crimson, yellow and orange in separable colors...10c each; 75c per doz; \$5.00 per 100.
Single, Mixed.65c per doz; \$4.50 per 100.
Double. Scarlet, pink, white and yellow.15c each; \$1.50 per doz
Double Mixed.\$1.00 per doz.

TWO BRILLIANT BEGONIAS.

Two gorgeous tuberous-rooted varieties of strong but dwarf habit, 8 to 10 inches in height, and throwing up numberless stems, of full, double flowers from early in July until cut down by severe frost. A continuous display of color, which, for richness and intensity, is unapproached by any other flower.

Du'e Zeppelin. Intense pure vermillion-scarlet.

Lafayette. Brilliant crimson-scarlet.....20c each; \$2.00 per doz.



Caladium Esculentum.

CALADIUM ESCULENTUM. (Elephant Ear.)

One of the most effective plants in cultivation for the flower border, or for planting out upon the lawn. It will grow in any garden soil, and is of the easiest culture. It should be planted in a rich compost, where it will obtain plenty of water. Foliage light green.

Size	Each Doz.	By Mail	Size	Each Doz.	By Mail
1. Small bulbs	10c	\$1.00	15c ea.	4. Selected Extra	
2. Large bulbs	15c	1.50	20c ea.	large bulbs	.35c \$3.50 45c ea.
3. Extra large bulbs	25c	2.50	30c ea.	5. Monster bulbs	.50c 5.00 60c ea.

CALADIUMS—FANCY LEAVED.

Fancy-leaved Caladiums have, in recent years, grown very rapidly in popular favor, for the decoration of the conservatory greenhouse and window boxes. We have a selection of the most showy varieties 20c each; \$2.25 doz.

AMARYLLIS.

Plant in equal parts sandy loam and leaf mould. If convenient, start in hotbed, beginning with fifty degrees of heat, increasing to sixty or seventy. When the leaves appear, water carefully and not in too great quantity. The Formosissima and Rosea planted in May make rich and showy border plants.

Atmasco Rosea. These flower all summer. Small, delicate, pink flowers.....5c each; 50c per doz.

Belladonna Major. White, turning to rose as the flower ages. 25c each; \$2.50 per doz.

Formosissima. Rich, velvety crimson, fine...15c each; \$1.25 per doz.

Johnsonii. Large flower, crimson-scarlet, striped with white. 30c each; \$3.25 per doz.

Halli. (Lycoris Squamigera.) A perfectly hardy Amaryllis, having flowers of a delicate lilac pink shaded blue, borne on stems two to three feet high, the flowers being trumpet shaped. Lycoris Squamigera produces in early spring attractive green foliage, which grows until July, when it ripens off and disappears, and one not familiar with its habits would think the bulb had died, but about a month later the flower stalks spring from the ground.....25c each; \$2.50 per doz.

TUBEROUS-ROOTED BEGONIAS.

Few plants are better adapted to the summer decoration of the window garden, the veranda, and the conservatory, than the Tuberous Begonia. It is a constant and prolific bloomer when well grown, wonderfully rich and varied in coloring, and so easy to grow that all persons ought to succeed with it after familiarizing themselves with its habits and requirements.



Single Tuberous-Rooted Begonias.

BEGONIA HARDY.

Exceedingly useful plants for the garden, good for shady places. Lustrous bronze green foliage with small pink flowers. Hardy Begonia plants can only be sent by express. Small plants, 10c each; \$1.00 per doz. Large plants, 15c each; \$1.50 per doz.

CALADIUM ESCULENTUM.

(Elephant Ear.)

One of the most effective plants in cultivation for the flower border, or for planting out upon the lawn. It will grow in any garden soil, and is of the easiest culture. It should be planted in a rich compost, where it will obtain plenty of water. Foliage light green.

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CANNAS.

McCULLOUGH'S COLLECTION OF STANDARD LARGE-FLOWERING VARIETIES.

The sorts offered below are all strictly high-grade.

No other bedding plant will give the same uniform good results in our varied and trying climate. They do well in all sections of the country, and stand pre-eminently at the head of the list, succeeding in any sunny position in any kind of soil, but responding quickly to liberal treatment. For best results the beds should be spaded two feet deep and a liberal amount of manure of any kind thoroughly incorporated, and at all times supplying water freely. For best effect plant in large masses of one color, setting out the plants 2 feet apart.

Dormant Roots.....10c each; \$1.00 per doz.

Strong plants ready about May 1st.....15c each; \$1.50 per doz.; \$10.00 per 100.

Canna Plants can only be sent by express, at purchaser's expense.

Allemania. Orchid-flowered, pleasing dark salmon with golden markings. Green foliage. 4 feet.

Alphonse Bouvier. Finest, tall, brilliant crimson; green foliage; 6 feet.

Annie Laurie. Clear silvery pink flowers, with cream throat; green leaves; 3 feet.

Austria. Pure canary-yellow; fine large open flowers, with few reddish dots in the center of the two inside petal; 5 to 6 feet.

Augusta. Bright crimson edged with broad band of yellow; green foliage; 2½ feet.

Charles Henderson. Vermilion red, penciled with yellow in the center; compact, dwarf, with very large flowers; green foliage; 3½ feet.

Duke of Marlborough. One of the finest of the very deep crimsons; fine individual blooms in large trusses, and exceptionally free-flowering and attractive; green foliage; 4 feet.

Egandise. A favorite bronze-leaved sort, with soft currant-red flowers; 4 feet.

Florence Vaughan. Bright, rich golden-yellow, spotted with red; of large size and perfect form; green foliage; 4 feet.

Italia. Orchid-flowered. Bright orange-scarlet, with broad golden-yellow border; the flowers are produced on massive stems, set well above the foliage, which is large and heavy, green foliage; 4 feet.

King Humbert. In this grand Canna we have a combination of the highest type of flowers with the finest bronze foliage. Its flowers measure 6 inches in diameter, produced in gigantic trusses, a brilliant orange-scarlet with bright red markings; foliage broad and massive, of a rich coppery-bronze; 5 feet.

Jean Tissot. One of the brightest; color an intense, brilliant vermillion, with bright orange shadings, a color that can be seen as far as the eye will carry; massive green foliage; 5 feet.

Louisiana. Very large, beautiful, vivid, scarlet, Orchid-like flowers, often measuring five to six inches across. Foliage a glossy green, edged with a narrow purple band; 6 feet.

Mont Blanc. Large, beautiful white flowers on strong branching stalks, well above the foliage. It blooms early and continuously. Its great masses of snowy-white flowers contrast finely when planted with crimson and scarlet kinds. 3 feet.

Niagara. Great handsome trusses; color, deep crimson, with a border of golden-yellow; green foliage; height, 3 feet.



Mrs. Kate Gray. Rich orange scarlet, overlaid with gold; flowers large, with immense trusses, foliage bright glossy green; one of the best. 5 feet.

Pennsylvania. Intense vermillion-scarlet, overlaid with an orange sheen. Flowers measure fully 6½ inches, are produced freely; foliage rich green; 5 feet.

Queen Charlotte. Rich scarlet with a wide, bright gold band around each petal; large flowers; green foliage; 3 feet.

Richard Wallace. A good free-flowering yellow Canna of vigorous growth, we believe this variety comes nearer to the ideal than any variety yet offered. In color it is a pleasing canary-yellow with exceptionally large flowers, which are carried well above the bright green foliage; 4½ feet.

Souvenir d'Antoine Crozy. Intense crimson-scarlet, with a broad golden-yellow border, an exceptionally free-flowering variety, and the brightest of the gilt-edged sorts; green foliage; 3½ feet.

Venus. One of the softest and most delicately colored varieties that has yet been introduced. The flowers are of fair size, of a soft rosy pink, with a pretty mottled border of creamy yellow. The plant always presents a clean, fresh appearance; green foliage; 3½ feet.

Price of above dormant roots,
10c each; \$1.00 per doz.

Strong plants ready about May 1st.
15c each; \$1.50 per doz.; \$10.00 per 100.

Robusta Perfecta. A distinct and handsome sort, makes a good screen; bearing immense leaves eleven to eighteen inches wide and three feet long, of a bright bronze-red color; the flowers are insignificant; six to seven feet high; with good cultivation grows ten feet.

10c each; 75c per doz.

Tall Cannas, Mixed. Our selection; dormant roots.
10c each; 75c per doz.

Dwarf Cannas, Mixed. Our selection; dormant roots.
10c each; 75c per doz.



DAHLIAS.

The Dahlia is one of the most important summer and autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until stopped by frost. Especially fine for cut flowers.

A FEW CULTURAL NOTES.

One of the most important points in the cultivation of the Dahlia is to select a well-drained position where they will receive the full benefit of the sun during the greater part of the day.

As to soil, they are not at all particular, except that in the case of a stiff clay some loose material should be added, such as coarse sand, old mortar, or anything which will make the soil loose and friable. The soil must be deeply dug, if possible to a depth of two spades, and a liberal amount of suitable plant food incorporated. For this nothing is more satisfactory than well-decayed stable manure; but where this can not be conveniently procured pure bone-meal, sheep manure, or any chemical fertilizer rich in ammonia and phosphoric acid will answer as a substitute.

The planting of dormant roots in the latitude of Cincinnati may be done at any time between April 25th and June 15th, the earlier planting being preferable. Plant the bulbs three inches below the surface of the ground, laying the bulb on its side. Do not crowd your plants, but plant at a distance of not less than $2\frac{1}{2}$ or 3 feet, and, as soon as the shoots appear, remove all but two or three of the strongest, and these, when about a foot high, should be secured to stout stakes.

Keep free from grass and weeds and water regularly in dry weather.

BEST STANDARD DECORATIVE AND SHOW DAHLIAS.

Named Varieties; 15c each; \$1.50 per dozen.

A. D. Livoni. Soft pink, with quilled petals and full to the center; long stems.

Susan. A very pleasing variety, its color, a delicate shell pink, as well as its remarkable free-flowering qualities, is not approached by any other Dahlia of this type.

White Swan. Pure white, large and fine; the hardiest and easiest grown; long stems.

Wm. Agnew. Richest shade of intense dazzling red and very large in size, sometimes 7 inches across; magnificent flower in color and form; always full to the center; long petals, outer row beautifully twisted.

Zulu. Black, changing to black-maroon as the flower fully expands; of fine form and full to the center.

CACTUS DAHLIAS.

Countess of Lonsdale. Profuse bloomer and one of the best. Flowers very large and of a beautiful shade of salmon-pink, blending into amber.

Floradora. Beautiful scarlet crimson, full to the center, fine pointed petals; good size; branching growth and profuse bloomer.

Gabriel. An exquisitely shaped flower, long incurved twisted petals; color combination of scarlet and cinnamon shades, sometimes tipped white.

Kremhilde. An exquisite delicate shell-pink, shading to white in the center. Undoubtedly the finest and most perfect pink Cactus Dahlia to date, and as a cut flower likely to supersede all other pink sorts.

Mrs. H. J. Jones. Very large, perfect, rich, bright scarlet, with cream-colored edge; occasionally comes self-colored.

Standard Bearer. Intense cardinal-red, with long twisted petals; early and profuse bloomer.

Winsome. (Cactus.) Pure white, flowers large, with twisted, incurved petals, giving great depth to flower. A strong, vigorous grower of branching habit.

SINGLE DAHLIAS.

Suitable for cut flowers on account of beauty, grace and long stems.

Crimson Century. Rich, deep, velvet crimson, shaded maroon, with rose halo around a yellow disc.

Maroon Century. Rich maroon, with yellow disc.

Pink Century. Delicate soft pink.

Scarlet Century. Brilliant scarlet, golden disc.

White Century. Pure white with large, heavy, overlapping petals of good texture.

Twentieth Century. Early in the season an intense rosy-crimson, shading gradually to almost white on the edges and a light halo around the disc. As the season advances the flowers become lighter, changing to almost pure white, suffused with soft pink.

Price of the preceding varieties, 15c each; \$1.50 doz.

MIXED DAHLIAS.

Our mixtures are made from selected varieties and contain many more kinds than we list here.

Double Mixed, Cactus Mixed, Single Mixed. Our selection..... 10c each; \$1.00 doz.

Arabella. Pale primrose, tipped and shaded old rose and lavender.

Catherine Duer. Of largest size, full to center; free bloomer; long stems; beautiful vivid scarlet; robust grower.

Clifford W. Bruton. Canary yellow; immense size and perfect form. A tall, vigorous grower and extremely free bloomer.

Frank Smith. Rich purplish maroon, shading almost to black, each petal tipped with white, with carmine red shadings; vigorous growth, early and profuse bloomer.

Germany. Brilliant strawberry-red, a very fluffy, artistic flower, standing well above the foliage.

Geisha. Orange red, with yellow center paling off towards the end of the petals.

Grand Duke Alexis. Pure white, distinctly tinged delicate pink. A magnificent flower of largest size.

Henry Patrick. Pure white; large size, long stems; fine for cutting.

Jack Rose. Brilliant crimson-red, rich and glowing; stiff stems, holding its large flowers erect.

Lyndhurst. Brilliant cardinal-red. A fine cut flower.

Nymphaea. The flowers are of medium to large size, always full to the center, resembling the ideal pink water-lily. The color is a clear, distinct, light shrimp-pink, tinted lighter toward the center.

Ohio. Flowers large, of fine form and full to the center. Color delicate shell pink, shading to deeper pink in center, reverse side of petals pink.

Perle d'Or. The grandest white decorative Dahlia to date. It is very large, and of beautiful chrysanthemum shape. It is a strong, vigorous branching grower of medium height, about $3\frac{1}{2}$ to 4 feet, and an extremely early and profuse bloomer on long stems.

Queen Victoria. Handsome deep yellow, finely quilled, perfect form.

Red Hussar. Best scarlet-crimson; a very strong, vigorous grower; fine, large, well-formed flowers on long stems. One of the best bright reds for cutting.

Stanley. Bright golden yellow, tipped red.

Storm King. Extremely early, profuse and constant bloomer. Flowers snow-white, perfect form.

Sylvia. Valuable for cutting. Flowers from 4 to 5 inches in diameter, of fine form and full to the center; grow on long, stout and graceful stems; color white, shading to soft pink on the outer petals.

Snow Queen. Pure white, strong vigorous grower. The graceful formation of the flower and adaptability for both garden decoration and cut-flower makes it extremely valuable.

Snowclad. (Pompon.) The finest white with long stems.

Sunshine. (Pompon.) Brilliant scarlet; fine form, full centers, long stems, largely used for cutting.

Gladiolus

Our list comprises only the best, both in mixtures and in named sorts.

For best results they should have a sunny position. A light, sandy loam suits them best, but they do equally as well in heavy soil provided there is perfect drainage. Well-rotted stable manure is the very best fertilizer, and where convenient it should be spread over the land in the fall, and dug in the following spring. Sheep manure is an excellent substitute, and can be applied in the spring. The best time to plant is about the first of May. To make a good show they should be planted from three to four inches apart each way. The depth to plant is regulated by the size of the bulb, large bulbs being covered about six inches deep, smaller ones from three to four inches.

In cutting Gladioli for the house, it is best to cut the spikes as soon as the first one or two lower flowers are open. The remainder will open in the house.

Add 5c per dozen extra for postage.

America. Conceded to be one of the finest varieties for cutting or bedding ever sent out; color a beautiful soft flesh-pink, orchid-like in its coloring and texture; growth and habit perfect. **10c** each, **\$1.00** per doz., **\$6.00** per 100.

Attraction. Rich, deep crimson, with conspicuous pure white center and throat. **10c** each, **\$1.00** per doz.

Augusta. A lovely and useful pure white variety. **5c** each, **50c** per doz., **\$3.50** per 100.

Brilliant. Glistening scarlet with carmine and white throat. The best scarlet. **8c** each, **75c** per doz., **\$5.00** per 100.

Best Violet. A tall large flowered solid violet, with fine narrow white bars on lower three petals. A rich color. **10c** each, **\$1.00** per doz.

Blue Jay. The nearest approach to a really blue Gladiolus yet sent out; color rich, deep, royal violet-blue. **10c** each, **\$1.00** per doz.

Chicago White. Pure white with faint lavender streaks in the lower petals. They are borne on tall straight stems and from 5 to 7 flowers are open at one time. It is one of the earliest to bloom hence valuable as a cut flower sort. **15c** each, **\$1.50** per doz.

Kunderi "Glory." The wide open flowers, all face in the same direction and are carried on straight stout stalks. The color is a delicate cream pink with a most attractive crimson stripe in the center of each lower petal. The ruffling of the petals in this new strain has attracted much attention. **15c** each, **\$1.50** per doz.

Marie Lemoine. Slender spike, well-expanded flowers; upper division of a pale creamy color, flushed salmon, lilac; the lower division spotted violet and yellow. A very dainty variety. **5c** each, **50c** per doz., **\$3.00** per 100.

May. Lovely pure white flowers, finely flaked bright rosy crimson; strong spike. Good forcing variety. **5c** each, **50c** per doz., **\$3.00** per 100.

Mrs. Francis King. A magnificent new variety. The large blooms are of a delightful light scarlet and are well placed on the large spikes, bearing six open flowers at one time. **5c** each, **50c** per doz., **\$3.00** per 100.

Niagara. Resembles "America," but the flowers appear to be somewhat larger, measuring 4 1/2 inches across. In color the flowers are a delightful cream shade with the two lower inside petals or segments blending to canary yellow. The throat is splashed with carmine, and the lower ends of the outside petals are also blushed with carmine. The stamens are purple and the stigmas pale carmine, this little addition in the coloring relieving the creamy effect of the petals. **20c** each, **\$2.00** doz.

Panama. A new seedling of America which resembles the parent variety in every way except that it is a much deeper pink. A grand variety. Spike very long with flowers large and well arranged. **20c** each, **\$2.00** doz.

Principes. An especially fine variety with immense wide-open amaryllis-like flowers, of a rich dazzling scarlet, marked with white on the lower portion, which serves to intensify the brilliancy of the scarlet. **15c** each, **\$1.50** per doz.

Rochester White. The petals are white clear into the throat. The very fact that the anthers and pollen of this variety are white, places it in a class superior to any other white Gladiolus ever grown. The spikes are well supported and average 2 1/2 to 3 feet in length. The flowers are correctly placed and develop evenly along the stem, opening up perfectly to the topmost bud. The plants of this variety are strong, vigorous and healthy, not only blooming profusely but increasing in bulbs better than many other varieties. **30c** each, **\$3.00** per doz.



Rochester White

Shakespeare. White, slightly suffused with carmine rose; large rose blotch. **10c** each, **90c** per doz.

Sunlight. Light crimson with large canary-yellow throat, mottled maroon; very striking color **8c** each, **75c** per doz.

Taconic. Bright lively pink, flecked and striped with shades of the same color. The markings on the lower petals are deep crimson. **10c** each, **90c** per doz.

Wild Rose. Bright rose or blush tint, exceedingly delicate and pretty. Valuable as a cut flower variety, either for forcing or outdoor planting. One of the best. **15c** each, **\$1.50** per doz.

Wm. Falconer. Beautiful clear light pink, spikes of great length and flowers of immense size. **10c** each, **\$1.00** per doz.

Yellow Bird. A splendid shade of yellow, one of the very best in its color. **15c** each, **\$1.50** per doz.

Gladiolus In Mixture

If Gladiolus are wanted by mail, add 5c per doz. for postage. Single bulbs mailed without additional charge.

Our mixtures offered below are made up of fine varieties. Are strictly selected bulbs, and sure to give satisfactory results.

McCullough's Superb Mixture. This is our popular mixture, and is composed of fine sorts, in all colors, in first-size bulbs only. We have tested many brands of mixtures, some of them costing twice as much as this, but have never seen any which surpassed it in variety of coloring or general excellence. **5c** each, **35c** per doz., **\$2.50** per 100.

American Hybrids Mixed. These are fine early hybrids, and while not as fine as the preceding, the size and coloring of many of the sorts are truly marvelous. **4c** each, **25c** per doz., **\$1.50** per 100.

Gladiolus In Separate Shades

	Ea.	Doz.	100
Scarlet and Crimson shades mixed.	5c	25c	\$1.50
White and Light	"	5c	2.50
Yellow and Orange	"	5c	3.50
Striped and Variegated	"	5c	2.50
Pink and Rose	"	5c	2.50

LILIES.

No class of plants can lay so much claim to our attention as the Lilies. They are stately, elegant and beautiful, and possess the most agreeable perfume, and for general effect, whether growing in garden or house, they have no rivals. The soil should be rich, deep and mellow with good drainage, as nothing will injure the bulbs more than water collecting and standing around them. Do not put manure around the bulbs when setting, as it collects moisture and insects, and often causes the bulbs to decay. Top dressing is the better way to enrich the soil after the bulbs are set. The beds should be well covered with leaves and straw manure to exclude the frost. Set bulbs four to six inches deep, according to their size.

Auratum. (Golden Japan Lily.) This superb Lily has flowers 8 to 10 inches in diameter composed of six white petals, thickly studded with rich chocolate-crimson spots and a bright golden band through the center of each petal; exquisite vanilla-like perfume. Extra strong bulbs .20c each; \$2.00 per doz. Large bulbs .15c each; \$1.50 per doz.

Canadense. One of our hardy native sorts, and bears a graceful stem of drooping bell-shaped yellow and red flowers. .10c each; \$1.00 per doz.

Longiflorum. A variety bearing in clusters beautiful snow-white trumpet-shaped flowers of rare fragrance; fine for forcing and house culture. .15c each; \$1.25 per doz.

Elegans. This large showy lily, bright orange red, has proven hardy and effective for both beds and borders. .15c each; \$1.50 per doz.

Speciosum. (Lancifolium.) Well known as Japan Lilies, and one of the most popular garden varieties, also excellent for pot culture, of easy growth, and may be relied upon to give satisfaction, growing two to four feet high and blooming in August.

Speciosum Album. Large white flowers of great substance, with a greenish band running through the center of each petal. Extra strong bulbs .25c each; \$2.50 per doz.

Large bulbs .15c each; \$1.50 per doz.

Speciosum Rubrum, or Roseum. White, heavily spotted with rich, rosy crimson spots. Extra strong bulbs .20c each; \$2.00 per doz.

Large bulbs .15c each; \$1.50 per doz.

Superbum. A hardy native Lily. Flowers bright orange red, thickly spotted with purple. A strong growing plant often eight feet, bearing from 20 to 30 flowers. .15c each; \$1.50 per doz.

Tenuifolium (Siberian Lily). A native of Siberia. One of the hardiest Lilies; flowers vivid scarlet, with petals reflexed; showy and free-flowering, blooming early in the spring. It is of easy cultivation requiring only a well-drained sandy soil. .15c each; \$1.50 per doz.

Tigrinum Splendens (Tiger Lily). Orange red, spotted with black. .10c each; \$1.00 per doz.

Tigrinum Flore Pleno (Double Tiger Lily). This is a plant of stately habit, bearing an immense number of double, bright orange-red flowers, spotted with black, three to five feet. August. .15c each; \$1.50 per doz.

LILY-OF-THE-VALLEY.

No garden is complete without a bed of these fragrant flowers. Should be planted in a shady place, where if left to themselves they will spread and increase rapidly.

Large Clumps. Planted in a shady, moist situation, being one of the hardiest of flowers, they require little or no attention. .35c each; \$3.50 per doz. **By express or freight at buyer's expense. If wanted by mail, add 20c each for postage.**

TUBEROSES.

One of the most fragrant and beautiful of the summer flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March, in the greenhouse or hotbed; and for succession they can be planted at intervals as late as August. For flowering in the open border, plant about the first of May.

Excelsior Pearl. Much superior to the ordinary Double Pearl Tuberose. This variety is characterized by its short, robust stem and long spikes of flowers, which are more double and twice as large as those of the old sort. .5c each; .35c per doz.; \$1.50 per 100.

Dwarf Pearl. Large size. .3c each; .25c per doz.; \$1.25 per 100.

Single Ever-Blooming Tuberose. This charming single flowering Tuberose is of the purest white, both inside and out. The odor is less heavy than that of the Double Tuberose. .5c each; .35c per doz.

GLOXINIA.

Magnificent for house culture, producing in great profusion beautiful flowers of rich and beautiful colors. They succeed best in sandy loam and peat, and require a moist heat.

Large Flowering Varieties. Finest Mixed. .15c each; \$1.50 per doz.

MADEIRA OR MIGNONETTE VINE.

A rapid growing vine, covering a large space in a short time. Fleshy, heart-shaped leaves of a light green and numerous racemes of feathery flowers of delicious fragrance. .5c each; .40c per doz.

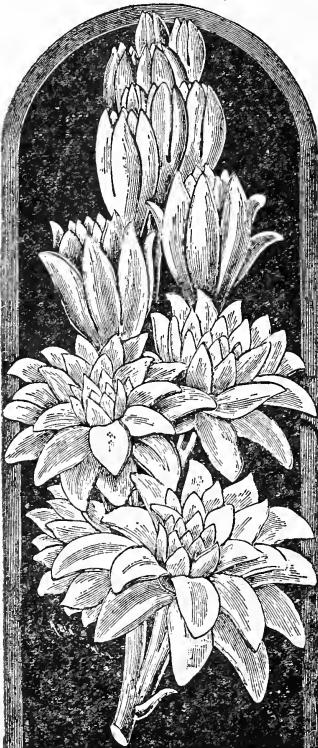
OXALIS. (Summer-Flowering.)

Valuable for edging walks, flower beds, etc. Bulbs planted three inches apart form rounded rows of delicate foliage, about one foot high, which produce flowers in endless succession.

Dieppi. Bright crimson. .15c per doz.; .75c per 100.

Dieppi Alba. Pure white, very fine. .15c per doz.; .75c per 100.

Lasandria. Fine, rose pink, beautiful cut foliage. This is the tallest and when planted in a bed with Dieppi, should occupy the center. .15c per doz.; .75c per 100.



Tuberose Excelsior Pearl.



Lilium Auratum.

Hardy Herbaceous Perennial Plants

The steadily increasing demand for hardy plants has induced us to give them more attention and to increase our stock considerably. Whenever possible we solicit a personal inspection of our stock either at **Nurseries of the McCullough Seed Co., McCullough Station, Pleasant Ridge, Cincinnati, Ohio; or at Our Store, 316 Walnut Street, Cincinnati, Ohio.** Send all correspondence to our Cincinnati offices.

15c each, \$1.50 per dozen. (If sent by mail 20c each), except where otherwise noted.

Anchusa Italica. (Dropmore Variety.) One of the finest hardy perennials of recent introduction, remarkable for its free and continual flowering all summer and the beautiful gentian-blue of its flowers; grows about five feet high, and should be in every hardy border. **25c** each, \$2.50 per dozen. (By mail **30c** each.)

Anthemis Tinctoria. The hardy Marguerites are among the most satisfactory summer-flowering perennials, growing about 15 inches. Large golden yellow flowers.

Antirrhinum. (Snap Dragon.) Assorted colors.

Aquilegia. (Columbine.) Favorite late spring and early summer blooming plants, growing about two feet high. Assorted colors.

Begonia, Hardy. Exceedingly useful plants for the garden, good for shady places. Lustrous bronze green foliage with small pink flowers.

Boltonia Latiflora. (False Chamomile.) Large single, Aster-like flowers, blooming profusely during summer and autumn. Pink, lightly tinged with lavender. 4 to 6 feet.

Campanula. (Canterbury Bells.) An elegant genus of plants, rich in colors, profuse in bloom.

Chrysanthemum, Hardy. These small-flowered varieties are very popular for out-door bedding. They will produce an abundance of bloom until killed by frost. Pink, orange, white and yellow.

Chrysanthemum, Maximum. A free-growing plant, forming bushy plants, which continue in full bloom from June to August. The flowers are 3 inches and over in diameter, pure white with a golden center; they are of great substance and last a week or more when cut. 2 1/2 feet.

Coreopsis Lanceolata Grandiflora. A beautiful hardy border plant; grows 15 to 18 inches high, and produces its bright golden yellow flowers in great profusion the entire season.

Delphinium Formosum. (Larkspur.) Large flower spikes, deep blue with white eye.

Delphinium, Kelway's Hybrids. These grand Delphiniums are the handsomest of this class of plants and deserve a position in every garden; strong vigorous habit, with large flowers, in spikes 2 feet.

Dicentra Spectabilis. (Bleeding Heart.) An old-fashioned favorite. Its long racemes of graceful heart-shaped pink flowers are always attractive.

Digitalis. (Foxglove.) A handsome and highly ornamental, hardy perennial plant of stately growth.

Funkia Coerulea. (Blue Day Lily.) Blue, broad, green leaves.

Funkia Subcordata Grandiflora Alba. (August Lily.) Pure white, lily-shaped, fragrant flowers.

Funkia Undulata Variegata. Foliage green, striped with white.

Gaillardia Grandiflora. Beginning to flower in June, they continue one mass of blooms the entire summer. Flower, 3 inches in diameter; center dark reddish brown; petals orange to crimson.

The above plants (except where otherwise noted) 15c each, \$1.50 per dozen. If sent by mail, 20c each.



Hellanthus, Maximiana.

Single-flowered variety; growing from 5 to 7 feet high. September and October. The flowers are produced in long graceful sprays, which make it invaluable for cutting purposes.

Hellanthus, Multiflorus Fl.

Pl. (Double Hardy Sunflower.) One of the most useful perennial plants. It produces its large, double Dahlia-like golden yellow flowers during July and August. Four feet.

Hellanthus (Hardy Sunflower.) Soleil d'Or. To those who appreciate depth of color in yellow, we offer this variety with the assurance that its deep golden-yellow flowers with quilled petals, similar to the Dahlia, will appeal to all lovers of the best there is in yellow. Plant grows three to four feet high and blooms from July to October.

Hemerocallis (Yellow Day Lily.) Queen of May. A splendid new variety of the yellow day lily, producing flower stems from three to five feet high, which are terminated with from 12 to 18 flowers of largest size and of a rich Indian-yellow color. The flowers begin to develop in May, and continue for nearly two months. This plant is perfectly hardy and should be in every collection. **35c** each, \$3.50 per dozen.

Hemerocallis Flava. (Yellow Day Lily.) One of the finest hardy plants; flowers large, in clusters, golden yellow and fragrant; plant vigorous; 3 feet. June.

Hemerocallis Kwanso Fl. Pl. Large, double, orange colored flowers. July and August.

Hemerocallis Flava. (Tawny Day Lily.) Orange colored flowers.

Hibiscus, "Crimson Eye." Flowers of immense size. Color white, with a large spot of deep crimson in the center.

Hibiscus. (New Giant Flowering Marshmallows.) An improved form of our greatly admired native Marshmallow or Rosemallow, not only the colors have been greatly intensified, but in which flowers of enormous size, frequently 10 to 12 inches in diameter, have been developed. These plants can be highly recommended for all kinds of plantings. They appear to be equally at home in all positions, having the same vigor in dry and wet ground, and are perfectly hardy. They grow from 5 to 8 feet high, and are very floriferous, blooming from early in July until late in Autumn. We offer three colors, White, Pink and Red in strong two-year-old roots at **50c** each, \$5.00 per dozen.

Hollyhock. For planting in rows or groups on the lawn, or for interspersing among shrubbery, they are invaluable. They require rich, deep soil, well drained, and will repay in quantity and elegance of bloom any extra care. A slight protection during the winter will be beneficial. Double and single. Assorted colors.

Hardy Herbaceous Plants—Continued

15c each, \$1.50 per dozen (except where noted.) If sent by mail, 20c each.

Iris Kaempferi—Japanese Iris

Azuma Nishiki, No. 15. Outer petals have soft pink ground, shading to white at edges, inner petals lilac. Bright yellow star center, standards white with red borders.

Azuma Yuki, No. 81. Petals rosy purple with heavy white veins, standards brownish-red, striped with white, yellow star center.

Banrai Nami, No. 1. Petals pale pinkish white with white standards and yellow center.

Ezonishiki, No. 6. Petals heavily splashed with purple on white ground, standards brown with purple shading, large yellow star center.

Furomon, No. 28. Petals bright pink, shading to creamy white, with heavy purple veins, standards purple, yellow center.

Gosetsu No Mai, No. 12. Petals light blue, yellow star center, with dark bluish purple standards.

Hitome-No-Seki, No. 93. Petals pink and creamy white, beautifully blended, standards pink blotched with white, large yellow star center.

Juni-Hitoe, No. 86. Petals deep blue with pink veins, standards dark purple shading to lilac, yellow center.

Kimino-Medmu, No. 97. Petals soft lilac with dark purple veins, yellow center and delicate purple standards.

Kokyo Bare, No. 24. Petals brownish red shading to pink, spotted with white and heavily veined, standards delicate purple with creamy yellow stripes, bright yellow center.

Krishik-Ikari, No. 85. Petals brownish-red with light brown veins, center yellow, standards scarlet striped with white.

Kuro Kumo, No. 72. Petals intense bluish-purple, heavily veined, bright yellow center, with light purple standards.

Kyo-Dai-Yama, No. 59. Petals indigo, standards greenish blue striped with white, large yellow center.

Manazum, No. 79. Petals soft lilac with darker veins, yellow center, standards purple, striped creamy white.

Minoji Ga Taki, No. 15. Petals bright pink with dark carmine veins, standards lavender striped with white, center yellow.

Ogino-Mato, No. 19. Outer petals, indigo purple shading to lilac, inner petals, pink and white with yellow center, standards brownish red, marbled with creamy white.

Okino-Kamone, No. 65. Petals recurved and creamy white, standards pure white, large bright yellow star center.

Sassa No Koe, No. 34. Petals recurved and creamy white, beautifully veined pink and white, orange yellow center, standards pure white, spotted deep pink.

Sen Nio Do, No. 20. Beautifully blotched and spotted with scarlet on white ground, blending at center to creamy white with golden yellow star center, standards white edged with pink.

Shio Kemuri, No. 25. Recurved petals of sky blue shading to white, with yellow star center, standards darker shade bordered with brown.

Shiraito-Daki, No. 100. Petals creamy white with bluish tinge, finely veined, center yellow, standards white with deep blue edges.

Tai Hei Raku, No. 99. Petals rich pansy purple, with golden-yellow center and light purple standards.

Yezo-Nishiki, No. 16. Petals lavender, heavily spotted with dark purple, center yellow, standards lavender bordered with purple.

Yodo No Kuruma, No. 8. Petals bright pink shading to dark pink at center and heavily veined, standards purple marbled with white, center yellow.

Above named varieties, 25c each; \$2.50 per dozen. By mail 30c each.

Finest Mixed—15c each, \$1.50 per dozen. By mail 20c each.

Iris Germanica—German Iris

Baron von Humboldt. Dark blue.

Canary Bird. Light yellow or buff, very fine.

Coerulea. Sky blue.

Florentina Alba. White; one of the most desirable.

Florentina Coerulea. Blue, very fine.

King of Yellows. Yellow.

L'Innocence. Pure white veined with orange purple.

GERMAN IRIS—Continued

Mad. Cherau. Standard and falls pure white; daintily edged with light blue.

Mont Blanc. Pure white.

Pallida Dalmatica. One of the finest of the Germanica type, of strong, vigorous habit, growing in good soil 4 feet high, with exceptionally large, fragrant flowers, standards lavender, falls lavender shaded blue; exquisite in every way and fine for massing. 25c each, \$2.50 per dozen.

Purpurascens. Dark purple.

Queen Victoria. Blue, gradually changing to pale bluish white.

Thorbecke. White and deep violet.

Price, 15c each; \$1.50 per dozen. By mail, 20c each.

Lychnis Chalcedonica. A desirable plant, grows 2 to 3 feet high; flowers, brilliant orange scarlet.

Lythrum Roseum Superbum. (Rose Loose Strife.) A strong growing plant, 3 to 4 feet high, producing large spikes of rose colored flowers from July to September.

Mertensia Virginica. (Blue Bells.) An early spring-flowering plant, growing about one to one and one-half feet high, with drooping panicles of handsome light blue flowers, fading to clear pink; one of the most interesting spring flowers, blooming in May and June.

Papaver Orientale—Oriental Poppies

Diana. Beautiful salmon flowers.

Goliath. Flowers scarlet, of enormous size.

Mary Studholme. Salmon, with silvery shade.

Mahogany. Flowers dark red, shading to crimson-marrow.

Princess Victoria Louise. Soft Lilac rose.

Procerpine. Dark Lilac with large black blotch.

Royal Scarlet. Scarlet flowers with black center.

Salmon Queen. Soft, salmon-scarlet; very distinct.

Wurtenbergia. Strikingly pleasing red flowers.

Phlox Decussata—Hardy Phlox

Beranger. White ground delicately shaded with pink and distinct red eye.

Bridesmaid. Pure white, with crimson-carmine eye.

Coquilletot. Bright orange-scarlet, with crimson eye; extra large compact flower heads.

Daubigny. Rosy purple, with enormous florets.

Eclairier. Dark crimson, center rose, surrounded with white; an excellent variety.

Etna. Deep fiery red dark eye.

F. G. Von Lassburg. The finest white flowers; very large; strong vigorous grower.

Geo. A. Strohlein. Bright scarlet, with crimson red eye; large flowers, does not bleach.

Hermine. The best dwarf, pure white, early, fine for border; a perfect little gem.

Independence. An early, pure white.

Maculata. Tall growing, many branched, pyramidal trusses of bright purple.

Miss Lingard. (Suffruticos.) Pearly white, very early and free.

Obergartner Wittig. Large, crimson-carmine flowers, vigorous grower.

Panthaea. Bright carmine rose; large and fine.

R. P. Struthers. Bright rosy-carmine, with claret-red eye.

Richard Wallace. White with bright crimson center, large flowers in immense panicles.

Seima. A pretty, delicate, soft, pale rose, with distinct red eye.

Snowflake. Large pure white, large flowering variety.

Thebaide. Salmon with carmine eye, dwarf, extra fine.

Wm. Robinson. Bright pink. Tall growing variety.

Physostegia Virginica. One of the most beautiful of our midsummer flowering perennials, forming dense bushes 3 to 4 feet high, bearing spikes of delicate tubular pink flowers. Strong plants.

Platycodon Grandiflorum. Large bell-shaped, blue flowers, blooms from July to September. Rapid growing plant of branching habit; 2 to 3 feet high.

Platycodon Mariesi. Deep blue, bell-shaped flowers, nearly 3 inches across; 1 to 2 feet high.

Hardy Herbaceous Plants—Continued

15c each, \$1.50 per dozen (unless otherwise quoted.) If sent by mail, 20c each.

Paeonies—Standard Double Varieties

De Candoie. Currant red, tinged amaranth; distinct color, best of its shade, very large and double. 50c each, \$5.00 per dozen.

Edulis Superba. Bright mauve pink color mixed with lilac, fragrant, strong, upright stems, free bloomer, early. 35c each, \$3.50 per dozen.

Felix Crousse. Large double ball-shaped bloom; color brilliant red; one of the finest self-colored varieties. 60c each, \$6.00 per dozen.

Festiva Maxima. White with carmine tipped flakes to a few center petals; a strong grower with immense flowers. 40c each, \$4.00 per dozen.

Floral Treasure. Large, full, clear pink with lighter center; blooms large on heavy stems. 40c each, \$4.50 per dozen.

Jeanne D'Arc. Outside petals rose colored, inside straw colored, with crimson spots. 60c each, \$6.00 per dozen.

Livingstone. Soft rosy pink, silvery reflex, strong long stems, best late pink. 75c each, \$7.50 per dozen.

Mme. Catot. Large, pale hydrangea-pink, with darker shadings in the centre; early. 40c each.

Mme. Boulanger. 35c each.

Madame Charles Leveque. Pale blush, one of the best. 75c each, \$7.50 per dozen.

Marie Lemoine. Large sulphur white shaded with pink; magnificent. 50c each, \$5.00 per dozen.

Meissonier. Broad outer petals, brilliant purple amaranth, inner petals crimson, free bloomer. 35c each, \$3.50 per dozen.

Purpurea Superba. Large purplish-crimson, large guards. 30c each, \$3.50 per dozen.

Queen Victoria. Large, full compact bloom, opening flesh, changing to white, center petals tipped with carmine. 30c each, \$3.00 per dozen.

Tricolor Rosea. Dark violet rose; large globular flower. 40c each, \$4.50 per dozen.

Officinalis Alba Plena. Light pink changing to white. 30c each, \$3.00 per dozen.

Officinalis Rosea Superba. Large rose, very early and fine. 30c each, \$3.00 per dozen.

Officinalis Rubra Plena. The old fashioned deep crimson Paeony; early. 30c each, \$3.00 per dozen.

Unnamed Varieties. Colors, crimson, rose and white. 25c each, \$2.50 per dozen.

Paeonies—Japanese Single

The single Paeonies are even more beautiful than the double. They are larger in size of flowers and more delicate in coloring. No other plant flowering at the same season can vie with the Single Paeony.

We offer the following colors:

Carmine, Crimson, Magenta, Maroon, Purple and Rose—30c each, \$3.00 per dozen.

Pinks—Hardy Garden. (White, Pink and Rose.)

Rudbeckia, Golden Glow. One of the most desirable, effective flowering plants for August and September. It grows six feet high, branching freely and throwing up masses of large double yellow flowers.

Ornamental Grasses

Arundo Donax. (Great Reed.) An ornamental giant grass, growing ten to twelve feet high.

Arundo Donax Variegata. A variegated form of the above, growing six to eight feet high.

Erianthus Ravennae. (Plume Grass.) Grows six to eight feet high, and produces plumes in fall.

Eulalia Gracillima. (Japan Rush.) The most beautiful of all the Eulalias, with narrow, graceful foliage, entirely green without variegation, except that the mid-rib is of a silver sheen. Perfectly hardy.

Eulalia Japonica Variegata. Leaves striped white and green longitudinally.

Eulalia Zebina. (Zebra Grass.) A peculiar variegated grass, growing six feet high. The variegation is unlike that of any other plant, being across the leaf in regular bands, dark green and light.

25c each, \$2.50 per dozen. 10c each extra by mail.

Rudbeckia Purpurea. (Giant Purple Cone Flower.) Flowers about 4 inches across; of a reddish purple, with large, cone-shaped center of brown; thickly set with golden tips in spiral lines; forms bushy plants from 2 to 3 feet high. Blooms July to October.

Saxifraga. (Umbrosa—London Pride, Nancy Pretty, or None-so-pretty.) The Alpine Saxifraga require a semi-shady position in well drained ground or on the rockery. A low growing, spreading sort, throwing up stems a foot high of white flowers, sometimes suffused with red. 25c each, \$2.50 per dozen.

Scabiosa Japonica. Handsome border plants growing about two feet high succeeding in any ordinary soil if well drained and in a sunny location, and should be grown in every garden where cut flowers are wanted; they last a long time when picked and placed in water. Bears lavender-blue flowers on long stems from July to September. 25c each, \$2.50 per dozen.

Sedum Spectabile. (Brilliant Stone Crop.) One of the prettiest erect growing species, attaining a height of 18 inches with broad light green foliage and immense heads of handsome, showy rose colored flowers.

Shasta Daisy. Perfectly hardy, of easy cultivation and blooms for several months. The flowers are large, 4 to 5 inches across, with large broad petals of the purest white. June to October.

Stokesia Cyanea. (Cornflower Aster.) Produces showy Aster-like deep blue flowers which measure from 4 to 5 inches across. It is of the easiest culture, succeeding in any open sunny position. The plant grows from 18 to 24 inches high, blooming freely from July until frost.

Sweet William. (Dianthus Barbatus.) Beautiful old-fashioned favorite border plant.

Veronica Longifolia Subsessilis. A pretty species with blue flowers, produced on spikes a foot long, continuing in bloom the entire summer and fall.

Vinca Minor. (Periwinkle or Trailing Myrtle.) An excellent dwarf evergreen trailing plant that is used extensively for carpeting the ground under the shrubs and trees, or on graves where it is too shady for other plants to thrive.

Vinca Minor Variegata Aurea. A pretty yellow variegated form of the hardy Vinca Minor which is so extensively used as a ground cover, especially in shaded places where grass will not grow. This new variegated form should prove a most desirable addition for this purpose, particularly so as the foliage is irregularly margined and marbled with yellow. It also should prove valuable for use in window boxes particularly for winter use in connection with Boxwoods and other evergreen plants. Mr. William Falconer, Supt. of Allegheny Cemetery, Pittsburgh, Pa., one of our best authorities on hardy plants, says: "It is very beautiful and I am satisfied that the variety will find an appreciative place among hardy plants." Strong nursery-grown plants. 15c each, \$1.50 per dozen.

Yucca Filamentosa. (Adam's Needle.) A hardy evergreen plant with long, narrow leaves that are bright green the whole year round. The flowers are creamy white, bell-shaped, produced on long spikes.

15c each, \$1.50 per dozen (except where noted). If sent by mail, 20c each.

EVERBLOOMING HYBRID-TEA ROSES.

This collection of Roses embraces the most popular of the Hybrid-Tea type, several of them, varieties with which every lover of Roses is familiar, and all of them thoroughly tested sorts which have been found most satisfactory for outdoor planting.

They combine, in a large degree, the hardiness of the Hybrid Perpetual class with the free-flowering qualities of the Tea Roses, and withstand the winter with little or no protection.

We especially recommend this collection of Roses to those who wish a supply of extra choice flowers for cutting throughout the summer and fall months.

All Roses thrive best when well watered, sprayed with Hellebore and Bordeaux Mixture for insects and funguses, and fed either by applications of manure water, or Bonemeal at the rate of two pounds per square yard. The Hybrid Perpetuals are particularly susceptible to such treatment and respond quickly.

Medium Sized Plants 25c each, \$2.75 per doz. 5c extra if to be sent by mail.

Extra Strong Plants 50c each, \$5.00 per doz. 10c extra if to be sent by mail.

American Beauty. This is the queen of all roses, being extra large, full and fragrant. The color is a fine deep pink shaded toward the center a carmine crimson. We do not recommend it for outdoor culture.

Burbank. Color, bright pink; strong, vigorous grower, perfectly hardy, fragrant and free-flowering.

Etoile de France. Rich, velvety crimson, with cerise-red center. A strong, vigorous grower, with good flowers, which are full and double and as beautiful in the bud as in the full-blown flower, and borne on strong, upright shoots in great profusion.

Etoile de Lyon. Deep golden yellow; very large and full buds, strong, vigorous grower; fine for outdoor summer blooming.

Frier von Marshall. Brilliant red, large double flower. Splendid grower and very free bloomer. A grand bedder.

Gruss an Teplitz. This, the reddest of all red Roses, is a Rose for everybody, succeeding under the most ordinary conditions. In color it is of the richest scarlet, shading to a velvety-crimson as the flowers mature; it is of good size, very fragrant, a free, strong grower, and a most profuse bloomer, the mass of color produced being phenomenal.

Hermosa. Probably the most popular bedding rose. It is a bright pink color, free-flowering and perfectly hardy.

Kaisserin Augusta Victoria. Soft pearly-white, tinted with just enough lemon in the center to relieve the white; remarkably fragrant, beautifully formed flowers on long, graceful stems; a strong, free, healthy grower, with bold, handsome foliage.

Killarney. Probably no Rose has ever taken such a prominent place so quickly as Killarney. It is one of the most popular of our garden Roses, and also one of the leading varieties for winter cut flowers. It is perfectly hardy in this latitude; in growth it is strong and robust, and as free-flowering as any Rose we know. In color it is a sparkling, brilliant, imperial pink; the blooms are large, the buds long and pointed, the petals very large and of great substance, and just as handsome in the full-blown flower as in the bud form.

La France. An old favorite, and probably the most popular Rose the world over. A model garden Rose in every way; flowers clear satiny-pink; large, very full and of perfect form.

Mme. Abel Chatenay. The most popular Rose in England, both in the garden and as a cut flower, thousands of its beautiful buds being sold daily on the streets of London; it succeeds equally well here, is a strong grower and produces very freely beautiful flowers of carmine-rose, shaded with salmon.

Madame Caroline Testout. Brilliant satiny rose; flowers and buds extra large, of excellent substance, and keeps its color well; hardy, strong grower.

Madame Jules Grolez. A beautiful satiny rose color, very bright and attractive, flowers of large size, very double, of good form, and remarkably free flowering.

Maman Cochet. Deep rose pink. A strong, healthy growing variety, with rich, bright foliage. A grand bedding rose, as it is a profuse and continuous bloomer.

Maman Cochet White. The flowers are large size, pure white, sometimes tinged with rose; the finest white bedding rose.

Orleans. Color bright red and pink, center slightly shaded white; free flowering, dwarf, compact, robust habit; foliage bright green. This is a rose of great merit and will undoubtedly become a great favorite for pot culture and bedding.

Perle des Jardins. Beautiful rich yellow, of large size and perfect form.

President Carnot. The flowers of the largest size, of exquisite shape; buds long and pointed; color, outer petals white, center delicate flesh pink. Excellent summer blooming variety.

Rhea Reid. Flower large and double; free flowering and exquisitely fragrant; rich, dark, velvety red. The finest bedding red rose.

Souvenir de la Malmaison. Rich flesh color, beautifully shaped double flowers. A grand rose.

Souvenir de Pierre Notting. Color orange-yellow, bordered carmine-rose, very bright, with beautiful closely-set foliage and a strong, sturdy habit of growth. The bud is long and beautiful, the bloom very large, perfectly full, of elegant form.

Taft. Color bright rose shading to pink on outer petals. Flowers large and fragrant, strong, vigorous grower. The best pink summer blooming rose.

Wm. R. Smith. The flowers are large and double. The petals softly curled, colored cream with flesh tint tips, buffy-yellow base and the center pink; fine bedding variety.

White Killarney. A pure white sport from Killarney, with which it is identical. It is perfectly hardy with light protection. A strong, robust grower, flowering very freely throughout the season.



La France.



HARDY HYBRID PERPETUAL ROSES.

Among all the hardy plants few are so commonly well liked or more valuable than the roses, particularly the "June Roses" as the Hybrid Perpetuals are called. They are strong growers, bearing large globular flowers and are so hardy that they succeed in any locality.

Medium Sized Plants 25c each, \$2.75 per dozen. 5c extra if sent by mail.

Strong Plants 50c each, \$5.00 per dozen. 10c each extra if sent by mail.

Captain Christy. A lovely rose, very large, double buds of a deep flesh color.

Captain Hayward. Bright crimson-carmine; a distinct shade of color, of perfect form, and very sweet.

Coquette des Branches. White tinted pink, medium size, perfect form.

Duc de Rohan. Brilliant carmine, high center; excellent form.

Frau Karl Drusckii. The ideal hardy white rose, pure in color, perfect in form; strong grower and free flowering.

General Jacqueminot. Brilliant scarlet crimson, of fine shape and exquisite fragrance.

Harrison's Yellow. The Hardy Yellow Rose of olden times. Deep golden yellow, semi-double and very hardy, suitable for planting in old fashioned gardens and amongst shrubs, prune lightly as this variety flowers on the previous year's growth.

Madame Plantier. Pure white and a free bloomer; unrivaled for hedges or cemetery use.

Magna Charta. Bright pink, suffused with carmine; strong vigorous grower.

Mrs. John Laing. Soft pink, of beautiful form; exceedingly fragrant and free flowering.

Mrs. R. G. Sharmon Crawford. Deep rosy pink, outer petals shaded with pale flesh; a beautiful rose.

Paul Neyron. Very large dark rose; by far the largest rose in cultivation.

Ulrich Brunner. Bright cerise-red; flowers large and full.

MOSS ROSES.

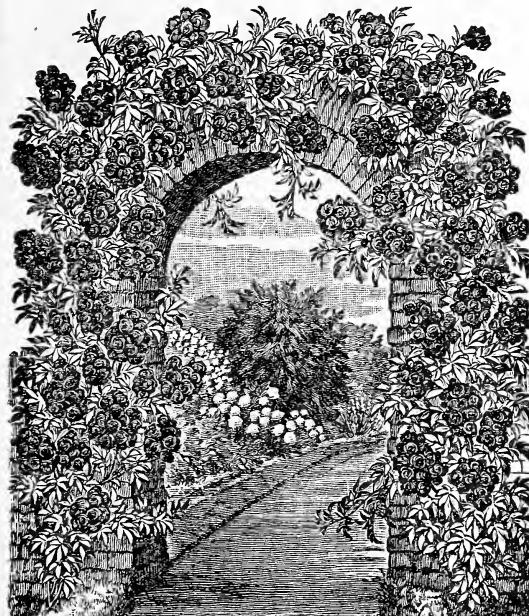
Crested Moss. Rose color, beautifully crested.

Strong Plants, 50c each; \$5.00 per dozen.

HARDY CLIMBING ROSES.

Extra Strong Plants, at 50c each; \$5.00 per dozen.

Crimson Rambler. This grand old climber hardly needs description. The magnificent trusses of bright crimson flowers are freely produced and admired by everyone. It is still one of the easiest of Roses to succeed with. Unsurpassed for walls, hedges, pillars, arches, pergolas; very hardy and a strong grower.



Crimson Rambler.

Yellow Rambler. The flowers are borne in immense clusters, often as many as 150 blossoms in a bunch. The color is a decided yellow; the flowers are very fragrant; the habit of growth is very vigorous. Well established plants often making shoots eight to ten feet in one season.

ROSA RUGOSA.

The lovely Rugosa Roses form sturdy bushes three to five feet in height, covered with handsome, glossy-green foliage and clusters of beautiful single flowers, which emit a delightful odor. They bloom nearly the whole summer, and are covered during autumn and winter with red seed pods.

Rugosa. Glossy crimson. **Rugosa Alba.** Pure white. **Rugosa Blanche de Coubert.** Double pure white. **Strong Plants** 30c each; \$3.00 per dozen. **Extra Strong Plants** 50c each; \$5.00 per dozen.



Gen. Jacqueminot.

Dorothy Perkins. A good one. As hardy as Crimson Rambler. The flowers are borne in clusters and are very double; the petals are very prettily rolled back and crinkled. The color is a most beautiful shell pink and holds a long time without fading.

Flower of Fairfield. (Ever Blooming Crimson Rambler.) A sport from Crimson Rambler, with same climbing habit, hardiness and immense trusses of crimson flowers. It flowers on the young wood in its first year, is of vigorous growth, and when in bloom supersedes anything else by the wonderful display of its immense clusters of blossoms. It starts blooming in early spring and continues to flower till late in fall.

Gardenia. (Wichuriana.) Buds bright yellow, opening double flowers of a cream color, incurving towards evening to the shape and the color of a cape jessamine. Suitable for climbing over walls, arbors, stumps of trees and for trailing over rocks or rough ground. The foliage is retained on the plants almost the entire winter, making them practically evergreen.

Michigan Climber. Single variety; flowers nearly two inches in diameter; produced very freely; color, bright rich pink; strong, vigorous grower.

Pink Rambler. Pure satiny rose, single in clusters. The partially open buds being bright light carmine, thus producing a strong and pleasing contrast.

White Dorothy Perkins. This beautiful new Rose is the counterpart of the well known Dorothy Perkins, excepting in the color which is pure white. Already a universal favorite.

White Rambler. Closely resembles the Crimson Rambler in vine and foliage. Large clusters of pure white single flowers, which are deliciously fragrant. The flowers remain on the plant a long time and keep a long time when cut.

ORNAMENTAL FLOWERING SHRUBS

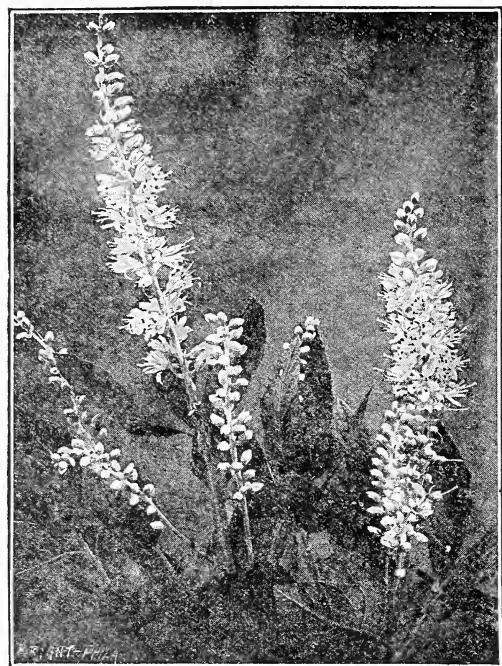
Shrubs are as much a part of the garden as the lawn or flower borders, and a well arranged planting presents an attractive appearance throughout the entire year.

Shrubs have many uses. As a background to a flower border, for hiding an unsightly building, fence or foundation, or they may be planted in a mixed shrubbery border, in which case those of short, dense growth should be planted along the front of the border, graduating to the tall-growing kinds at the back.

Thorough preparation of the soil by spading, and the addition of a liberal quantity of sheep or stable manure or bone meal will be well repaid by strong, vigorous, healthy growth. In planting, care should be taken not to overcrowd, allowing sufficient room for future development, and unless an immediate effect is wanted—in which case they may be planted closer and some of them moved when necessary. The majority of the dwarf-growing kinds may be set about three feet apart, the tall, strong growers about five feet apart.

Our Shrubs are transplanted every two or three years and are furnished with plenty of fibrous roots and should not be compared to stock that is never moved from the cutting beds until sold.

We can furnish Extra Strong Specimen Plants of most all sorts at \$1.00 to \$5.00 each.



Clethra Alnifolia.

groups or masses, or planted by itself.	25c each;	\$2.50 doz;	strong plants	50c each;	\$5.00 doz.
Berberis Thunbergii. A beautiful Japan variety of dwarf habit.	30c each;	\$3.00 doz;	strong plants	50c each;	\$5.00 doz.
Calycanthus Floridus. (Sweet-scented Shrub) flowers fragrant, like strawberries; double and of a chocolate color.	25c each;	\$2.50 doz;	strong plants	50c each;	\$5.00 doz.
Caryopteris Mastacanthus, (Blue Spirea). A pretty autumn blooming shrubby plant producing clusters of beautiful blue fragrant flowers in great profusion from September until frost. Dies to the ground in winter.	25c each;	\$2.50 doz;	strong plants	50c each;	\$5.00 doz.
Cercis Canadensis. (Judas Tree or Red Bud.) Very showy and beautiful when in bloom. All the branches and twigs are covered with a mass of small pink flowers early in the spring, before the leaves appear, 5 to 6 feet.	25c each;	\$2.50 doz;	strong plants	50c each;	\$5.00 doz.
Clethra Alnifolia. (Sweet Pepper Bush.) A desirable, dense growing shrub, with dark green foliage and showy upright spikes of creamy white fragrant flowers in August.	25c each;	\$2.50 doz;	strong plants	50c each;	\$5.00 doz.
Corkchorus Argentea Variegata. A dwarf variety with small green foliage, edged with white. One of the prettiest and most valuable dwarf shrubs.	30c each;	\$3.00 doz.			
Corkchorus Japonica, Fl. Pl. (Globe Flower.) A graceful shrub with double yellow flowers from June to October; 3 feet.	30c each;	\$3.00 doz;	strong plants	50c each;	\$5.00 doz.
Corkchorus Japonica, Single. A slender, green branched shrub, with globular yellow flowers from July to October	30c each;	\$3.00 doz;	strong plants	50c each;	\$5.00 doz.
Cornus Florida. (White Flowering Dogwood.) The flowers, produced in spring before the leaves appear, are from 3 to 3½ inches in diameter, white and very showy. They begin to appear as the Magnolia flowers are fading, and are invaluable for maintaining a succession of bloom. Foliage grayish green, glossy, and handsome, and in the autumn turns to a deep red; one of the most showy flowering trees. 5 to 6 feet.	30c each;	\$1.00 each;			\$10.00 doz.
Cornus Florida Rubra. (Red Flowering Dogwood.) A rare variety similar to the common type except in color of the flowers, which are rich rosy-red. The two varieties make a fine contrast. 2 to 3 feet	30c each;	\$1.25 each;			\$12.00 doz.
Cornus Mascula. (Cornelian Cherry.) A small tree-like shrub, producing early in spring, before the leaves appear, clusters of bright yellow flowers, are followed by red berries.	40c each;	\$4.00 doz.			
Cornus Sanguinea. (Red Twigged Dogwood.) A strong growing bush, with crimson-colored branches, especially attractive in winter.	30c each;	\$3.00 doz.			
Corylus Purpurea. (Purple Leaved Filbert.) A conspicuous shrub with large dark leaves; distinct and fine	60c each;	\$6.00 doz.			

ORNAMENTAL FLOWERING SHRUBS—Continued.

Ribes Aureum. (Yellow-flowered or Missouri Currant.) A native species with glabrous, shining leaves and yellow flowers; the flowering currants are beautiful shrubs in early spring, and of easiest culture. 30c each; \$3.00 doz. Strong plants 50c each; \$5.00 doz.

Robinia Hispida. (Rose Acacia.) A native species of the Locust, of spreading, irregular growth, with long, elegant clusters of rose-colored flowers in June and at intervals throughout the season. 75c each; \$7.50 doz.

Snowberry White Fruited. A well known shrub with small pink flowers and large white berries that hang on the plant the greater part of the winter. 30c each; \$3.00 doz.

Spirea Anthony Waterer. A valuable and distinct variety; color bright crimson; it is of dwarf, dense growth never exceeding 24 inches in height, and a profuse bloomer in spring and fall. 25c each; \$2.50 doz.

Strong plants. 35c each; \$4.00 doz.

Spirea Bumalda. A spreading low bush; with dark leaves brightened by corymbs of pretty, light pink flowers in May and at intervals, all summer. 30c each; \$3.00 doz.

Spirea, Callosa Alba. A white flowering variety of dwarf, bushy, symmetrical form. Keeps in flower all summer. 30c each; \$3.00 doz.

Spirea Opulifolia Aurea. (Virginian Guelder Rose.) An interesting variety with golden-tinted foliage and large white flowers in June. 30c each; \$3.00 doz.

Spirea Prunifolia Fl. Pl. (Bridal Wreath.) Blooms in May, with pure white double flowers. Makes showy specimen plants for lawn. 30c each; \$3.00 doz.

Strong plants. 50c each; \$5.00 doz.

Spirea Reevesii Fl. Pl. Tall and graceful, with dark, bluish green foliage, and large pure white double flowers, in May and June. 30c each; \$3.00 doz.

Spirea Thunbergii. One of the finest shrubs to flower in the spring. Forms a perfect well rounded bush, dwarf and compact, a perfect ball of white when in bloom. 30c each; \$3.00 doz.

Spirea Van Houttei. The grandest of all the Spireas; it is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom. Clusters of 20 to 30 flat white florets make up the racemes, and these clusters are set close along the drooping stems. Perfectly hardy and an early bloomer. 25c each; \$2.50 doz. Strong plants 50c each; \$5.00 doz.

Tamarix Africana. Of graceful spreading growth, covered with pink flowers in early spring. 40c each; \$4.00 doz.

Viburnum Opulus. (High Bush Cranberry.) Both ornamental and useful. Its red berries resembling cranberries, esteemed by many, hang until destroyed by frost late in the fall. 30c each; \$3.00 doz. Strong plants 50c each; \$5.00 doz.

Viburnum Sterilis. (Snowball.) A favorite shrub of large size, with globular clusters of pure white sterile flowers the latter part of May. 25c each; \$2.50 doz. Strong plants 50c each; \$5.00 doz.

Viburnum Plicatum. (Snowball, Japan.) One of the most valuable hardy shrubs. It forms an erect, compact shrub six to eight feet high; blooms in early June, and for a long time is a solid mass of white. 50c each; \$5.00 doz.

Vitex Agnus Castus. A graceful shrub, growing from 5 to 6 feet high with dense spikes 6 to 8 inches long of lilac colored flowers. 30c each; \$3.00 doz. Strong plants 50c each; \$5.00 doz.

Weigelia Candida. Flowers pure white and produced in great profusion in June and the plants continue to bloom through the summer. 30c each; \$3.00 doz. Strong plants 50c each; \$5.00 doz.

Weigelia Coquette. Strong grower and abundant bloomer. Large pink flowers, individual flowers often 2 inches in diameter. Blooms at intervals during the summer. 30c each; \$3.00 doz. Strong plants 50c each; \$5.00 doz.

Weigelia Desboisii. A beautiful variety with deep rose colored flowers, one of the best. 30c each; \$3.00 doz. Strong plants 50c each; \$5.00 doz.

Weigelia Eva Rathke. A charming variety, flowers brilliant crimson; a beautiful distinct clear shade. 30c each; \$3.00 doz. Strong plants 50c each; \$5.00 doz.

Weigelia Rosea Nana Vareigata. Leaves beautiful margined creamy white; flowers pink. It is a dwarf grower, and adapted to small lawns or gardens; 3 feet. 30c each; \$3.00 doz. Strong plants 50c each; \$5.00 doz.

HEDGE PLANTS.

Berberis Thunbergii. Where a low, dwarf, deciduous hedge is wanted nothing equals this beautiful Barberry. It is of spreading habit, growing extremely thick right from the base, and requires but little pruning to keep it in shape. The leaves are small light green, and toward fall assume rich, brilliant colors the fruit or berries becoming scarlet. \$1.75 per doz.; \$12.00 per 100

California Privet. (Ligustrum Ovalifolium.) Of all ornamental hedge plants this is the most popular, and more of it is planted than all others combined. Its foliage is a rich dark green, and is nearly evergreen, remaining on the plant until mid-winter. It is of free growth and succeeds under the most adverse conditions, such as under dense shade of trees, where other plants would not exist. The most advantageous manner of planting is in double rows, the two rows being about 8 inches apart. The plants should be set 12 to 15 inches apart in the row, alternating the plants. In order to secure a dense hedge from the base up, the plants should be severely pruned the first two seasons.

2 Year Old Plants 75c dozen; \$4.00 per 100.

3 Year Old Plants \$1.00 dozen; \$6.00 per 100.

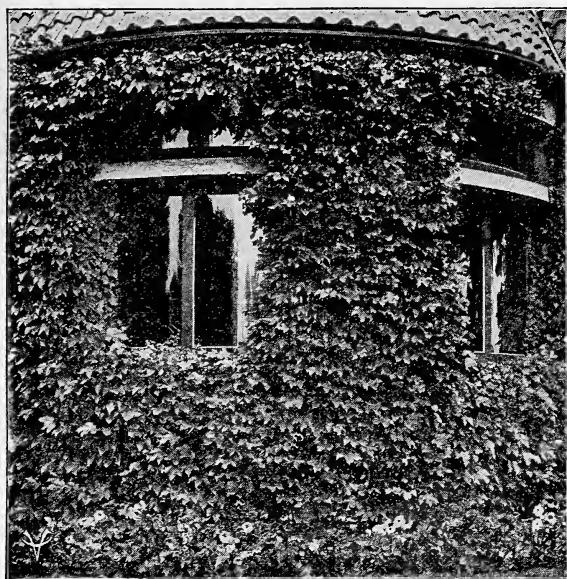
Extra Large Bushy Plants \$1.50 dozen; \$10.00 per 100.
Privet Amurensis. (Amoer River.) A hardy variety with large, oblong, glossy green foliage. Extra heavy plants. \$1.50 per doz.; \$10.00 per 100



California Privet Hedge
with Catalpa Bungei on Terrace.

We do not guarantee to replace Trees or Shrubs at prices quoted.

HARDY CLIMBING PLANTS

*Ampelopsis Veitchii.* (The Japan or Boston Ivy.)

Honeysuckle Plants, 25c each; \$2 50 dozen. By mail, 30c each.

Ivy English. A valuable evergreen, used for covering walls, etc., also used for covering graves, especially if in the shade.

25c each; \$2 50 doz. Large plants 50c each; \$5 00 doz.

Kudzu Vine. A rapid growing vine, attaining, after once being established, a height of 50 feet in one season.

25c each; \$2 50 doz.; by mail, 30c each.

Vitis Heterophylla Variegata. A beautiful climber with dark green foliage, variegated with white and pink. Useful for trailing over rocks or for a low trellis. 30c to \$1 00 each.

CLEMATIS, LARGE-FLOWERING

Duchess of Edinburgh. A free-flowering double white variety.*Gipsy Queen.* One of the finest of the dark purple varieties. A strong grower.*Henryi.* Fine large, creamy white flowers. A strong grower and very hardy.*Jackmanii.* The flowers, when fully expanded are from four to six inches in diameter; intense violet purple, with a rich velvety appearance, distinctly veined.*Jackmanii Rubra.* Bright carmine, the best red in cultivation.*Madame Ed Andre.* Crimson; strong vigorous grower, and free bloomer.*Miss Bateman.* White, with chocolate-red anthers.*Seiboldi.* Silvery lavender; a most beautiful shade.

The above named Clematis, 50c each; \$5 00 doz.

Paniculata. The flowers are pure white, very fragrant, borne in large clusters. A small flowering variety.

30c each; \$3 00 doz.; by mail, 40c each.

Coccinea. Handsome bell-shaped flowers of a bright coral-red color from June until frost. A small

flowering variety. 25c each; \$2 50 doz.; by mail, 30c each.

CHINESE WISTARIA

Wistaria Sinensis. The favorite variety, producing thousands of pendulous clusters of delicate violet blue blossoms richly perfumed. 50c each; \$5 00 doz.*Wistaria Sinensis Alba.* Of similar habit to Sinensis with pure white flowers. 50c each; \$5 00 doz.

BOXWOOD TREES

Plants in beautiful pyramidal specimens and also in standard, or tree form.

<i>Pyramid Shaped.</i>	2½ feet high.	\$3 00 each, \$5 00 pair, and upwards
"	3 feet high.	3 50 each, 6 00 pair, and upwards
"	3½ feet high.	4 00 each, 7 00 pair, and upwards
"	4 feet high.	5 00 each, 9 00 pair, and upwards
"	4½ feet high.	6 00 each, 11 00 pair, and upwards
"	5 feet high.	8 00 each, 15 00 pair, and upwards

<i>Globe Shaped.</i>	1½ feet high by 1½ feet in diameter.	5 00 each, and upwards
"	2½ feet high by 2½ feet in diameter.	7 50 each, and upwards

<i>Bush Shaped.</i>	1 foot high.	50c to 60c each, and upwards
"	1½ feet.	75c to 1 00 each, and upwards
"	2 feet.	\$2 00 to 2 50 each, and upwards
"	2½ feet.	3 00 to 4 00 each, and upwards
"	3 feet.	4 00 to 5 00 each, and upwards

<i>Standard or Tree Shaped.</i>		3 50 to 15 00 each, and upwards
<i>Box Dwarf.</i>	Useful principally for borders and edging. 6 inches.	\$1 00 doz.; \$7 00 per 100. Extra strong bushy plants.



Box, Pyramid Shape

EVERGREEN TREES

LARGE-SIZED SPECIMEN EVERGREENS.

We offer the following which have been grown in ample space and transplanted and are in the best condition to plant for immediate effect.

Abies Balsamea. (Balsam Fir.) A regular symmetrical tree assuming the cone shape when quite young. Leaves dark green, lighter beneath.

2 to 3 ft., 75c; 3 to 4 ft., \$1 00 to \$3 00

Abies Brachyphylla. A magnificent Japanese fir, with erect stem regularly whorled horizontal branches.

Specimen trees.....\$3 00 to \$5 00

Abies Nordmanniana. (Nordmann's Fir.) A thick dense tree. The needles are wide dark green, with a silvery under surface. One of the best evergreens. Specimen trees, 3 ft., \$4 00; 4 to 5 ft., \$5 00 to \$6 00; 6 ft., \$12 00 to \$15 00.

Abies Veitchii. A magnificent tree of splendid habit. The needles are dark green above and silvery white beneath.

\$5 00 to \$8 00

Juniperus, Pfitzeriana. Specimen trees.....\$5 00 to \$10 00

Juniperus, Sabina. (Savin Juniper.) A thickly branched dwarf spreading shrub with dark green foliage.

2½ ft., \$3 00

Specimen trees.....\$5 00 to \$10 00

Juniperus, Sabina Tamaricifolia. (Tamarax Leaved Savin.) 4 to 5 ft.....\$5 00 to \$6 00

Juniperus, Virginia Cannartii.\$5 00 to \$7 00

Juniperus, Virginia Glauca. (Blue Virginia Cedar.) Beautiful blue glaucous foliage.

Specimen trees, 4 to 5 ft.....\$5 00 to \$8 00

Juniperus, Virginia Shottei. A distinct variety of pyramidal habit, with light green foliage.

Specimen trees.....\$2 50 to \$8 00

Picea Excelsa. (Norway Spruce.) A rapid vigorous growing tree, with dark green foliage. One of the most popular evergreen trees. 3 to 4 ft., \$1 50; 4 to 5 ft., \$2 00 to \$2 50. Specimen Plants, \$5 00 to \$10 00.

Picea Excelsia Compacta. Very attractive, compact and distinct. Specimen trees.....\$4 00 to \$5 00

Picea Excelsia Remontii. Dwarf compact variety.

2 ft.....\$1 50 to \$4 00

Picea Orientalis. Habit compact and symmetrical, with short dark green needles.

Specimen trees.....\$3 50 to \$7 00

Picea Pungens Glauca Kosteriana. (Koster's Blue Spruce.) The finest ornamental evergreen grown. The foliage is the purest blue. Specimen trees, 2½ ft., \$4 00; 3 to 3½ ft., \$5 00 to \$7 50; 4 to 4½ ft., \$10 00.

Picea Pungens Glauca Pendula (Koster's Weeping Blue Spruce.) Specimen trees.....\$7 00 to \$10 00

Pinus Austriaca. (Austrian Pine.) A tall tree, with spreading branches heavily plumed with long, stiff needles.

2 to 2½ ft.....\$1 00

Pinus Cembra. (Swiss Stone Pine.) A hardy slow growing tree of distinct habit. 2 ft.....\$2 00 to \$3 00

Pinus Mugus. (Mugho Pine.) A unique alpine species; broader than its height, and sometimes almost prostrate. 18 to 24 inches.....\$2 00

Pinus Strobus. (White Pine.) A beautiful ornamental tree, also used for shade and shelter belts. 2 to 3 ft., \$1 00

Pinus Sylvestris. (Scotch Pine.) A strong grower, with spreading branches and short stiff needles.

2 to 3 ft., 75c; 3 to 4 ft., \$1 00

Retinospora Filifera. A broad bushy tree, with dark green foliage in pendulous thread-like strings. 3½ ft., \$4 00 to \$5 00

Retinospora Pisifera. The slender branches are open and graceful. Foliage light green above, silvery beneath, \$3 50 to \$5 00.

Retinospora Pisifera Aurea. Golden evergreen, light airy foliage. Specimen plants....3 ft., \$3 50; 6 ft., \$6 00

Retinospora Plumosa. Light green feathery foliage, it stands shearing well.....\$2 50 to \$4 00

Retinospora Plumosa Aurea. A dense small sized graceful tree. The young growth is a bright golden yellow. Specimen plants.....3 ft., \$3 50; 5 ft., \$5 00

Retinospora Plumosa Aurea Globe-Shaped. Specimen plants.....\$3 50 to \$5 00

Retinospora Squarrosa Veitchii. Dense growth; soft beautiful silvery blue foliage, arranged in spirals.

Specimen trees.....\$3 50 to \$5 00

Taxus Cupidata. A large handsome bush with numerous spreading branches; foliage deep glossy green above, pale yellowish green beneath.

Specimen plants.....\$4 00 to \$5 00



Koster's Blue Spruce

Thuya Occidentalis. (American Arbor Vitae.) Well known screen and hedge plant. 3 to 4 ft., \$2 00; 5 to 6 ft., \$3 00

Thuya Occidentalis Columbia. Specimen plants.....4 ft., \$5 00

Thuya Occidentalis Globosa Nova. Very dwarf and compact, grows naturally into a rounded almost ball-like form. 2 ft.....\$3 00

Thuya Occidentalis Wareana. A valuable species for cold climates, dense and shapely, medium height.....\$3 50

Thuya Pyramidalis. Very shapely, suitable for tubs, \$2 50 to \$5 00.

Thuya Species Rivers. Specimen plants.....4 ft., \$3 50

Thuya Standishii. A pyramidal tree of graceful drooping habit. 3 ft.....\$3 50

Tsuga Canadensis. (Hemlock Spruce.) A magnificent native tree that grows rapidly, and is very hardy. Specimen trees.....2½ ft., \$3 50; 3 ft., \$5 00

ORNAMENTAL TREES

Catalpa Bungei. (Umbrella Catalpa.) 6 to 7 ft., \$1 50 each; Specimen trees \$2 50 to \$5 00 each.

Cercis Canadensis. (Red Bud.) 5 to 6 ft., \$1 00 each.

Cercis Canadensis. (Red Bud.) 6 to 8 ft., \$1 25 each.

Chestnut. Dwarf. 2 to 3 ft., \$1 25 each.

Cherry, James Veitch. \$2 50 each.

Crab Apple. "Bechtell's," Double flowering. 4 to 5 ft., \$1 25 each.

Cornus Florida. (Dogwood.) White flowering. 5 to 6 ft., \$1 00 each; 6 to 8 ft., \$1 25 each.

Cornus Florida. Red flowering.....2 to 3 ft., \$1 25 each

Peach, Clara Meier. Double red.....\$2 50 each

Polymorphum Atropurpureum. (Japanese Maple.) Leaves deep blood red.....\$2 50 to \$5 00 each

Polymorphum Atropurpureum Dissectum. (Cut-leaved Purple.) Dark maroon, deeply serrated thread-like leaves. \$3 50 to \$5 00 each

Prunus Triloba. (Double-flowered Plum).....75c each

Prunus Pisardi. Purple Leaf Plum.....5 to 6 ft., \$1 00 each

Salisburia. Maiden Hair or Ginkgo. 8 to 10 ft., \$1 00 to \$2 00 each

SMALL FRUITS, GRAPE VINES, ETC.

By Express or Freight at Expense of Purchaser.

BLACKBERRIES.

50c per dozen, \$3.50 per 100.

Ancient Briton. Large fruit, stems loaded with good sized berries of fine quality; vigorous grower, one of the best.**Blower.** Large berries. Very productive.**Early Harvest.** Dwarf grower; fruit medium size of fine quality. The first to ripen.**Eldorado.** Large fruit, borne in large clusters and ripen well together, fine quality, good keeper.**Mersereau.** Extremely hardy, berries large; extra quality, sweet, rich and melting without core, good keeper and shipper, vigorous grower.**Rathbun.** A strong erect grower with strong stem, branching freely. Fruit very large, sweet and luscious, without hard core.**Snyder.** Medium size sweet and juicy, extremely hardy and very productive.**Taylor.** Medium size fruit of fine flavor, extremely hardy and very productive; ripens late.**Ward.** A strong vigorous grower, producing fine, large fruit of excellent quality, hardy.

CURRENTS.

Best Sorts—strong two-year-old plants.

Cherry. Deep red. 10c each, \$1.00 doz.**Fay's Prolific.** Color rich red; the leading variety for home use. 15c each, \$1.25 doz.**Black Prolific.** The favorite sort for preserving. 15c each, \$1.25 doz.**Perfection.** A new red variety combining size, color, high quality and productiveness. 20c each, \$2.00 doz.**White Grape.** Best white. 15c each, \$1.50 doz.

DEWBERRY.

Lucretia. One of the low-growing, trailing blackberries. It has proved highly satisfactory wherever tried, and many say it is the best of all the blackberry family. 50c per doz., \$3.00 per 100.

GOOSEBERRIES.

Downing. Large, pale green, and of splendid quality for both cooking and table use. 20c each, \$2.00 doz.**Houghton's.** Small to medium; roundish, oval, pale red, sweet, tender. 15c each, \$1.50 doz.**Industry.** Berries of largest size, excellent flavor, pleasant and rich, dark red color when fully ripe. Strong upright grower, an immense cropper. 25c each, \$2.50 doz.**Smith's Improved.** Large, pale greenish yellow, skin thin, of excellent quality. 20c each, \$2.00 doz.

GRAPE VINES.

ALL TWO-YEAR OLD SELECTED STOCK.

Black or Purple Grapes.

Campbell's Early. Bunch and berry large, glossy black, sweet and juicy; fine quality. 25c each, \$2.50 doz.***Concord.** Large, black grape, hardy and productive; juicy and sweet. 10c each, \$1.00 doz.**Eaton.** Bunch and berries very large, skin black and finest quality. 25c each, \$2.50 doz.***Ives' Seedling.** Dark purple. Sweet. 10c each, \$1.00 doz.**Moore's Early.** Ripens ten days earlier than Concord; bunch and berry round and large. 15c each, \$1.50 doz.**Worden.** Larger than Concord in bunch and berry; excellent flavor. 15c each, \$1.50 doz.

RED GRAPES.

Brighton. Bunch large, berries large, red, round, excellent flavor. 15c each, \$1.25 doz.***Catawba.** Berries large, round; when ripe a dark copper color; sweet, rich. 10c each, \$1.00 doz.**Delaware.** Small, light red, thin skin; very juicy, sweet, sprightly. 15c each, \$1.50 doz.**Vergennes.** Clusters and berries large, amber colored fruit, rich. 15c each, \$1.50 doz.

WHITE OR YELLOW GRAPES.

Green's Early. Nearly as large as Niagara, of fine quality. 20c each, \$2.00 doz.**Martha.** Large, pale yellow; strongly resembles the Concord. 15c each, \$1.50 doz.***Moore's Diamond.** White, good sized berries, juicy and sweet. 15c each, \$1.50 doz.**Niagara.** Vine remarkably hardy and strong grower; bunches very large and compact; berries large, light greenish white, slightly ambered in the sun. 10c each, \$1.00 doz.**Pocklington.** Bunch and berry very large; attractive golden yellow color. 15c each, \$1.25 doz.

Varieties marked with a * are best for arbors.

RASPBERRIES.

50c per dozen; \$2.50 per 100, except where noted.

Brandywine. Large size, light crimson color, good quality and firm, vigorous and productive.**Columbian.** The fruits are cone shaped of dark red, almost purplish color, rich sprightly flavor.**Cumberland.** The largest black cap; a healthy, vigorous grower; very productive.**Cuthbert.** Large, firm, deep rich crimson, of excellent quality, tall, strong and vigorous.**Eaton.** Hardy and strong grower, berries red, large, handsome, firm and highest quality, solid.**Golden Queen.** Berries large, golden yellow, bright and firm. 10c each, \$1.00 doz.**Gregg.** A large black variety, fruit firm.**Haymaker.** A purple cap variety, berries large.**King.** The earliest Red Raspberry; berries round, medium size, light crimson and excellent.**Kansas.** The hardest black cap; strong, vigorous.**Louden.** The best red, mid-season berry; fruit large, of a beautiful, rich, dark crimson color.**Ruby.** Fruit large, bright red, exceedingly firm.**St. Regis.** It is wonderfully prolific; the first or main crop being far greater than that of any other red variety known. It fruits on the old canes in generous quantities until late in August. By that date, berries begin to ripen upon the young canes, which continue to produce berries in increasing numbers until severe frost. The berries are a bright crimson, of large size and surpassing quality—rich, sugary with full raspberry flavor. They are of exceedingly meaty, firm texture and keep in good condition longer after being gathered, than any other red raspberry. 10c each, \$1.00 doz.

STRAWBERRIES.

The blossoms of those marked with (P) are destitute of stamens and are termed pistillate, and unless a row of perfect flowering variety is planted at intervals not exceeding about a rod, they will produce imperfect fruit and but little of it; but when properly fertilized as a rule they are more prolific than those with perfect flowers.

Dip the plants in water as soon as received, and bury the roots in moist, shady ground till you are ready to set them out.

25c per dozen; \$1.00 per 100; \$7.50 per 1,000.

Brandywine. A fine, large, late, handsome, productive berry of excellent quality; regular conical form; dark, glossy red.**Bubach's No. 5** (P). Large and uniform size, fine form and color; the leading market sort.**Cardinal** (P). This Strawberry surpasses all in size of plant and abundance of runners; fruit stalks tall and robust, bearing fruit well off the ground; color, beautiful cardinal red.**Clyde.** Large, light scarlet color; conical shape; very productive, good quality.**Gandy.** One of the best late varieties. Berries large, of fine form and excellent quality.**Glen Mary.** Large to very large, sometimes flattened; sweet, rich, delightful.**Haverland** (P). Very productive of medium to large, conical berries that are smooth, regular, mildly sub-acid.**Jessie.** Berries large, handsome, dark red. The plant is vigorous, healthy, with strongly staminate blooms; a good pollinator for imperfect-flowering sorts.**Nick Ohmer.** A fine, fancy market berry and always superb for the table. A giant in size.**Senator Dunlap.** Exceedingly vigorous. Fruit large, regular and attractive in form, deep red to the center. Firm in substance.**Warfield** (P). Great beauty, firmness, earliness, productiveness and vigor make this berry most popular.**Wm. Belt.** Berries very large, conical, bright red, of good flavor. The plant is strong, healthy, very fruitful. Season medium to late.**Superb.** The Ever-bearing Strawberry—is a truly wonderful fall-bearing variety, and what makes it unusually profitable is the fact that it also produces a heavy yield of choice fruit in the early summer, along with the standard varieties. They continue to give large yields of choice berries throughout August, September and in October up to the time the ground is slightly frozen. Plants of this variety which are set in the spring should have the blossoms removed until the first of July. The remainder of the blossoms may be left to develop into berries, and a good crop of fruit will thus be secured the same season the plants are set without injury to the plants. 50c doz. \$2.00 per 100.

**INSURE
YOUR
-SEED-**

The Improved German Soil Inoculator, Nobbe-Hiltner Process

NITRAGIN

TRADE MARK REG'D DEC. 6, 1898 NO. 32212.

PURE CULTURE

THE SIMPLEST SAFEST AND SUREST SYSTEM
OF SOIL INOCULATION FOR ALL LEGUMES

For Success With Clover, Alfalfa, Cow Peas, Soy Beans, Vetch—

in fact all legumes—you must have nitrogen. Failure with these crops is nearly always due to lack of the necessary germ that helps the plant draw free nitrogen from the air. The air is four-fifths nitrogen—the most expensive element of all plant food. You can use this nitrogen if you grow inoculated legumes. You can be sure of a good "catch," a uniform stand, of richer feeding value.



Nitrogen gathered by the germ, or bacteria, is stored in knots, or nodules, on legume roots. Part is used by the growing crop, part goes to the soil to benefit succeeding crops. Experiments prove that an inoculated legume crop returns to the soil an average per acre of 122 pounds yearly. This is in addition to the nitrogen used by the crop itself.

The first to appreciate the wonderful possibilities of legume bacteria were Doctors Nobbe and Hiltner, of the Royal Agricultural College, of Munich, Germany. For years they experimented and finally succeeded in breeding in their laboratory strong, healthy, vigorous nitrogen gathering germs. Realizing that their wonderful discovery meant a world benefit only when the practical farmer could make use of it, Nobbe and Hiltner evolved a way of packing the germs in a medium that insured successful delivery to the farmer—the germs absolutely guaranteed to be as strong, healthy and vigorous as when they left the laboratory.

This process is called the Nobbe-Hiltner Process; the product is called "NITRAGIN," the trade-mark name that distinguishes the original Nobbe-Hiltner Pure Culture from imitations all over the world.

Always look for these names. If they are on the can you are getting the original and the best. Don't risk your money on imitations.

"NITRAGIN" Pure Culture is packed in a granular medium, in a ventilated tin can. Packing date is marked on each can. The Armour Fertilizer Works positively guarantee the health, strength and virility of the germs for six months from date of packing. Don't associate "NITRAGIN" Pure Culture with so-called liquid or jelly cultures, usually packed in corked bottles. Most of these liquid or jelly cultures are still at the experimental stage.

The Nobbe-Hiltner improved method of packing "NITRAGIN" Pure Culture in granular form, and sending it to the farmer in ventilated tin cans is the safe and certain way. Because of this method and the nature of the medium the manufacturers are enabled to guarantee life, strength and virility of germs for six months from packing date.

The Nobbe-Hiltner granular process provides millions of surfaces for breeding and maintaining germs. Each granule is surrounded by a film of moisture and air, permitting free circulation through the entire mass. Thus an acre can of "NITRAGIN" Pure Culture contains millions and millions more bacteria than do similar size packages of other cultures.

"NITRAGIN" Pure Culture has been used in Germany for seventeen years. Last year it was used on more than a million acres. This year you should use it on your Clover, Alfalfa, Cow Peas, Soy Beans, Vetch, Field Beans, Garden Peas and Beans—in fact on all legumes.

Remember, each legume requires its own particular kind of bacteria. A special strain of "NITRAGIN" Pure Culture is prepared for each legume. In ordering be sure to name crop desired.

Get the Original

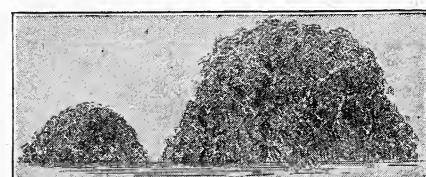
Look for the Armour Oval Label.

You are perfectly safe in using "NITRAGIN" Pure Culture. The quality and efficacy of this wonderful product is absolutely guaranteed by the great house of Armour. This guarantee is based on results of two years of experimenting by the bacteriologists of the Armour Fertilizer Works.

"NITRAGIN" Pure Culture is endorsed by thousands of practical farmers, state experiment stations and noted soil culturists here and abroad.

Soil inoculation by "NITRAGIN" Pure Culture simply means seed safety and crop insurance. It is not expense, but an investment which will yield twenty-fold returns. No mystery about it. Simply millions of strong healthy germs, guaranteed for six months. Your legumes must have these germs to draw nitrogen from the air. Easy to apply—a boy can do it. Just add water and mix with seed—let dry—plant as usual.

Prices per can—Garden size, \$1.00; acre size, \$2.00; 5-acre size, \$9.00. Express extra. Parcel post, 10c per acre extra.



Seed not ALFALFA Seed Inoculated with "Nitragin"

Agricultural Experiment Station of the University of Kentucky.

"Results with the sample of 'NITRAGIN' sent us indicate that there was an increase in the number of nodules, due to inoculation, and in soil deficient in nitrogen this would mean an increase in the nitrogen left in the soil by the plants. [Signed] H. Garman, Entomologist and Botanist."

FERTILIZERS

FOR FARM, LAWN, GARDEN AND GREENHOUSE

All Fertilizers delivered free-on-board Cincinnati. Prices subject to change without notice

McCullough's El Paso Sheep Manure.

ESPECIALLY VALUABLE FOR LAWNS.

This is a pure, natural manure, and nutritious food for plants. Its effect is immediate. It is the best of all manure for mixing with the soil for greenhouse plants. It makes the richest, safest and quickest liquid manure. Nothing equals it for use on flower beds or for the vegetable garden. Especially valuable for lawns, contains all the constituents for promoting a quick, luxuriant growth, and a rich green color. Is pulverized by machinery, making it very convenient to use. No raking off required. No seeds of foul weeds in it! No offensive odor! It is clean to handle! Absolutely safe to use in any manner.

Directions—For lawn, use at the rate of from 500 to 600 pounds per acre. For pot plants, mix one part of sheep manure to six parts of soil. For use in the vegetable garden, spread over the surface and dig in. Being soluble it readily makes a safe liquid manure—one pound to five gallons of water per day can be safely used. **10c** 2 lbs., **25c** 6 lbs., **50c** 13 lbs., **75c** 25 lbs., **\$1.25** 50 lbs., **\$2.00** 100 lbs., **\$30.00** per ton.

Wizard Brand Sheep Manure.

(Pulverized.)

This is a natural manure, and its effect is immediate; it is excellent for mixing with the soil for greenhouse plants—one part manure and six parts soil. Strew over and dug into the vegetable garden or placed directly in drills or hills, it promotes a rapid steady growth until maturity. For use in liquid form, one pound to five gallons of water will make a liquid which can be used with safety daily if necessary. **10c** 2 lbs., **25c** 7 lbs., **50c** 16 lbs., **\$1.00** 50 lbs., **\$1.75** 100 lbs.

Excelsior Plant Food.

An odorless preparation, combining in a concentrated and soluble form every element required in plants and flowers to produce vigorous growth and a profusion of flowers and fruit. Wonderful results are obtained, after one or two applications. It is immediately soluble in water, and available to plant life from the moment of application.

It assists in retaining moisture, will mature plants from two to three weeks earlier.

Small package making 10 gallons, **20c**; by mail, **25c** postpaid.

Large package, making 20 gallons, **35c**; by mail, **45c**, postpaid.

Pure Bone Meal.

This pulverized ground bone is excellent for rose culture and lawns. It decomposes rapidly and is more quickly effective than the coarser grade. It is excellent for mixing with soil for potting. **10c** 2 lbs., **25c** 5 lbs., **45c** 10 lbs., **\$1.00** 25 lbs., **\$1.50** 50 lbs., **\$2.50** 100 lbs., **\$4.00** 200 lb. bag, **\$35.00** per ton.

For lawns, use at the rate of at least 500 lbs. per acre.

Bone, Flour or Dust.

This is ground very fine, decomposes more rapidly in the soil than the coarser grades, and is therefore more quickly beneficial. **10c** 2 lbs., **25c** 5 lbs., **45c** 10 lbs., **\$1.00** 25 lbs., **\$1.50** 50 lbs., **\$2.50** 100 lbs.

Blood. (Dried.) For indoor culture of flowering plants, like roses, carnations, etc., its chief element being nitrogen. **10c** 1 lb., **25c** 5 lbs., **45c** 10 lbs., **\$1.00** 25 lbs.

Muriate of Potash. Apply 100 to 150 lbs. per acre, usually with other fertilizers. This must be used with great care as it is very powerful. Excellent for potatoes, corn, grain, etc. Price on application.

Nitrate of Soda. A natural product of the mines of Chili, South America. Contains 16 per cent Nitrogen, equal to 20 per cent ammonia. **10c** 1 lb., **25c** 3 lbs., **60c** 10 lbs., **\$1.25** 25 lbs., **\$2.25** 50 lbs.

ashes—Hard Wood. Drive away insects and improve the texture of the soil; indispensable for all crops requiring potash; very beneficial for garden and field crops, grass lands and lawns. Apply 1 to 2 tons per acre. **\$1.35** 100 lbs., **\$2.00** barrel (about 200 lbs.), **\$17.50** 10 barrels.

Land Plaster. If applied as a top dressing for grass or clover crops in the spring, it greatly increases the growth and yield of same; sprinkled in stables, poultry houses and on manure piles it will prevent ammonia from vaporizing thereby greatly increasing the value of farm manure. On account of its economical usefulness and effectiveness it should be liberally used on every farm. **\$1.50** 200-lb. bag.

Sulphate of Ammonia. Apply 100 lbs. per acre only with other fertilizers deficient in nitrogen. It will stimulate growth almost immediately. **10c** lb., **35c** 5 lbs., **60c** 10 lbs., **\$1.25** 25 lbs., **\$4.50** 100 lbs.

Sulphate of Potash. Apply 100 to 150 lbs. per acre, usually with other fertilizers. Valuable for root and grain crops. Price on application.

Ammonia and Potash.

The leading fertilizer, and is especially valuable for plants, potatoes and grain.

Per Cent.

ANALYSIS—Nitrogen 2.47 to 3.29
Ammonia 3 to 4
Available Phosphoric Acid 6 to 8
Potash (K₂O) 2 to 3

25c 5 lbs., **75c** 25 lbs., **\$1.25** 50 lbs., **\$2.00** 100 lbs.,

\$3.00 200-lb. bag, **\$13.50** half ton, **\$26.00** per ton.

Pacific Nobsque, General Crop.

For several years we have been handling this fertilizer, and the universal verdict from all who use it is "It is the best fertilizer we have ever used."

Per Cent.

ANALYSIS—Ammonia 1 1/4 to 2 1/4
Available Phos. Acid 8 to 10
Potash (K₂O) 2 to 3

25c 5 lbs., **75c** 25 lbs., **\$1.25** 50 lbs., **\$2.00** 125 lbs.,

\$2.50 167-lb. bag, **\$13.00** per half ton, **\$25.00** per ton.

Square Brand.

A Special Trucker's Fertilizer.

Per Cent.

ANALYSIS—Ammonia 4
Available Phosphoric Acid 8
Potash (K₂O) 6

\$2.00 100 lbs., **\$18.50** 1000 lbs., **\$36.00** per ton.

Acid Phosphate.

(Monarch Brand.)

\$1.00 100 lbs., **\$9.00** 1000 lbs., **\$17.50** per ton.

Moss, Peat, Etc.

Moss, Green Sheet. For hanging baskets, etc. **40c** per bale, **\$1.50** bundle of 5 bales.

Moss, Sphagnum. For packing plants and growing Orchids, etc. **10c** lb., **25c** 3 lbs., **50c** 7 lbs.

Peat, Jersey. Rotted. **\$1.25** per bushel, **\$2.75** per barrel.

Potting Soil. This is a mixture specially prepared by us, and such as used at our own greenhouses. It is suitable for all ordinary plants and bulbs. **25c** pk., **75c** bu., **\$1.50** bbl.

ALWAYS SOW "SUBURBAN" LAWN GRASS SEED MIXTURE.

There is no better mixture compounded.
Grows turf in 6 weeks from sowing.

McCULLOUGH'S SHADY PLACE MIXTURE FOR SHADY SPOTS.

See Pages 35 and 36

INSECTICIDES AND FUNGICIDES

Postage Must be Added If Wanted by Mail. See Postal Rates, Second Page of Cover.

Aphine. The Insecticide that kills plant lice of every species such as Green, Black and White Fly, Red Spider, Thrip, Slugs and Ants, Mealy Bug, White and Brown Scale. **25c** $\frac{1}{4}$ pt., **40c** $\frac{1}{2}$ pt., **65c** pt., **\$1.00** qt., **\$2.50** gal.

Arsenate of Lead. (Dry Powdered.) It is not affected by freezing, cannot dry out or deteriorate in any way, even if carried over indefinitely, does not contain 50 per cent of water on which freight must be paid, and in short, represents the ideal Arsenate of Lead. **35c** 1 lb. cartons, **\$1.75** 5 lb. tins.

Arsenate of Lead. (Paste.) The most effective poisonous insecticide for leaf eating insects. It will not scorch, burn nor injure the most delicate foliage, but at the same time kills all kinds of leaf and fruit-eating insects. It sticks to the foliage to which it is applied throughout the season no matter how frequently rain occurs. **25c** 1 lb. jar, **40c** 2 lbs., **70c** 5 lbs., **\$1.25** 10 lbs., **\$2.25** 20 lbs., **\$5.00** 50 lbs., **\$9.50** 100 lbs., **\$26.00** 300 lbs., **\$51.00** 600 lbs.

Bordeaux Mixture. (Paste.) A fungicide for curing and preventing black rot, mildew, blight, leaf curl, scab, or other fungoid diseases on fruits and plants, ready for use by simply adding water. **20c** lb., **50c** 5 lbs., **95c** 10 lbs., **\$1.75** 20 lbs., **\$3.75** 50 lbs., **\$6.50** 100 lbs.

Bordeaux Lead Arsenate Mixture. (Paste.) An insecticide and fungicide combined in one very effective product. Sticks well to the foliage, will not wash off by ordinary rains, and in this way the sprayer saves the expense in many instances of respraying. **25c** 1 lb. jar, **75c** 5 lbs., **\$1.40** 10 lbs., **\$2.65** 20 lbs., **\$4.50** 40 lbs., **\$10.50** 100 lbs., **\$47.50** 500 lbs.



Egg Plants, Melons, Rose Bushes, Currants and Potatoes. It drives ants from lawns and won't injure the grass. Full directions on each package. **15c** lb., **35c** 3 lbs. **50c** 5 lbs., **\$1.00** 12 $\frac{1}{2}$ lbs.

Copper Sulphate. For early spraying and making Bordeaux mixture. **10c** lb., **80c** 10 lbs., **\$6.50** 100 lbs.

Cutworm Food

The worm seeks the Food in preference to the plant.

Simply put the Food on the ground around the plant in the afternoon when the ground is not wet; and one night, or possibly two, will practically rid the field of the worms there.

One pound will protect 75 to 100 plants.

One lb. package..... **.25**
Five lb. package..... **1.00**
Ten lb. package..... **1.50**

Fir Tree Oil Soap. Is quite effective in destroying Red Spider, Mealy Bug, Aphids, etc. **25c** $\frac{1}{2}$ lb. tin, **75c** 2 lb. tins.

Fish Oil Soap. For destroying insects on plants, trees, vines, etc., for washing down the bark of trees, grape vines, etc. **10c** $\frac{1}{2}$ lb., **15c** 1 lb., **5 lbs.** to **50 lbs.** **12 $\frac{1}{2}$ lb.** in bulk **50 lbs.** or over, **10c** lb.

Fungine. A remedy for mildew, rust and other fungus diseases. Its chief constituent is sulphur, but it is so treated that it is free from the disagreeable features of most sulphur solutions, and is a clean, safe and easily applied fungicide which does not stain the foliage. **35c** $\frac{1}{2}$ pt., **60c** 1 pt., **75c** 1 qt., **\$2.00** gal.

Grape Dust. A non-poisonous powder for the remedy and control of mildew and rot on grapes, goose-berries, roses, etc. **10c** per lb., **40c** 5 lbs., **70c** 10 lbs.



Hellebore Powder. For destruction of Slugs, Worms, Caterpillars, etc., **15c** $\frac{1}{2}$ lb., **25c** 1 lb.

Insect Powder. For Worms, Flies, Aphids, and almost all kinds of insects. **25c** $\frac{1}{4}$ lb., **80c** 1 lb.

Kerosene Emulsion. One of the best insecticides for all soft bodied sucking insects, feeding openly so as to be within reach of actual contact, such as Plant Lice, Flea, Beetles, Aphis, Green Fly, Mealy Bug, also for insects on fruit trees.

40c qt., **\$1.00** gal.

Lemon Oil Co.'s Standard Insecticide. For all insects and soft scales. One of the best known insecticides, and having a pleasant odor, is highly recommended for house plants. Dilute 30 to 50 parts of water. **25c** $\frac{1}{2}$ pt., **40c** pt., **75c** qt., **\$1.25** $\frac{1}{2}$ gal., **\$2.00** gal.

Lime Sulphur Solution. For Fall, Winter and early Spring spray. Destroys San Jose Scale, Peach Leaf Curl, Bud Moth, Apple Aphis, Blister Mite, any Scale Insects or Bark Lice. Lime and Sulphur Solution—if not exposed to air will remain in solution a long time; will not clog the spray pumps because it is free from sediment. **1 gallon** will make **12 gallons** spraying liquid. **25c** qt., **30c** $\frac{1}{2}$ gal., **50c** 1 gal., **\$2.00** 5 gals., **\$6.00** $\frac{1}{2}$ bbl. (25 gals.), **\$9.00** 1 bbl. (50 gals.).

Lime, Prepared. It is thoroughly slackened, will not heat, swell or change. **10c** 2 lb. pkg.

Lawn Sifcate. A powder for killing weeds. **25c** 5 lbs., **50c** 10 lbs.

Nico-Fume Liquid. One of the best compounds on the market, contains 40 per cent nicotine. **50c** $\frac{1}{4}$ lb., **\$1.50** 1 lb., **\$5.50** 4 lbs., **\$10.50** 8 lbs.

Nico-Fume Paper. Strips of paper strongly saturated with Nicotine. These, when suspended and lighted, make one of the best and simplest methods of fumigating greenhouses. Use 4 to 6 sheets for ordinary house 100 ft. long by 20 ft. wide. Price, air-tight cans—**85c** 24 sheets, **\$4.00** 144 sheets, **\$7.50** 288 sheets.



Nikoteen. Used for destroying Green and Black Fly, Thrip, Mealy Bug, Red Spider, etc. **40c** 1 $\frac{3}{4}$ oz., **85c** $\frac{1}{2}$ lb., **\$1.50** 1 lb., **\$5.00** 4 lbs., **\$10.00** 8 lbs.

Paris Green. **10c** $\frac{1}{4}$ lb., **30c** 1 lb., **\$1.25** 5 lbs.

Scale Destroyer, Target Brand

It has the advantage of not alone destroying the scale but it cleans off the bark of the tree thoroughly; increases to a large extent the foliage and general vitality of the same. One Gallon Target Brand Scale Destroyer makes Twenty Gallons Dilution ready to apply. **35c** 1 qt., **65c** $\frac{1}{2}$ gal., **\$1.00** 1 gal., **\$4.00** 5 gals.

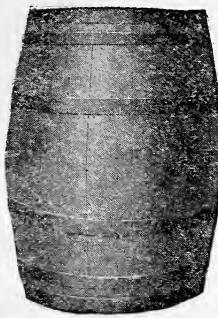
INSECTICIDES AND FUNGICIDES—Continued

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

Slug Shot. A non-poisonous powder and a very popular insecticide. Very effectual in destroying Caterpillars, Currant, Gooseberry and Cabbage Worms, Potato, Melon, Squash and Cucumber Bugs, Rose Slugs, Rose Lice, etc. **10c lb., 15c 2 lbs., 35c 5 lbs., 60c 10 lbs.**

Soluble Sulphur Compound

“NIAGARA BRAND”
In Powder Form



Don't Pay Freight on
Water

Note Comparison



The Old Way.

The above is cut of 50 gallon bbl. of Lime Sulphur solution. Weighing 600 lbs.

The New Way.

The above is cut of a 100 pound can of Soluble Sulphur (in dry form) equivalent to 60 gallons of Lime Sulphur solution.

SOLUBLE SULPHUR COMPOUND

It is used for the control of San Jose scale, oyster shell bark louse, and other scale insects, apple scab, peach leaf curl and other fungus diseases — pear psylla, leaf blaster mite, aphid and red spider.

It is put up in air tight cans in powder form and will keep indefinitely.

1 lb. can.....	\$0.25	25 lb. can.....	3.00
5 lb. can.....	1.00	50 lb. can.....	5.00
10 lb. can.....	1.50	100 lb. can.....	8.00

Sulfatine. A liquid weed killer. **40c qt., \$1.00 per gallon.**
Sulphur, Powdered. Used to prevent and cure mildew on plants. **10c lb., 15c 2 lbs., 35c 5 lbs., 60c 10 lbs.**

Sulpho-Tobacco Soap. Destroys Cabbage, Squash and Potato Bugs, Currant Worms, Lice, Green Fly, Mealy Bug, Red Spider, etc. **10c 3 oz. cake, 20c 8 oz. cake.**

Tobacco Dust. A sure remedy for Green Fly, Aphid, Fleas, Beetles, etc. **10c lb., 25c 5 lbs., \$2.50 100 lbs.**

Tobacco Dust for Fumigating. **10c lb., 25c 3 lbs., 60c 10 lbs., \$1.25 25 lbs., \$4.00 100 lbs.**

Tobacco Dust and Sulphur. Will prevent and cure mildew on grape vines and rose bushes. It will destroy the Green and Black Fly, Grubs, etc. **10c lb., 30c 5 lbs., 50c 10 lbs.**

Tobacco Extract, Black Leaf. A perfectly pure, highly concentrated extract of Tobacco, always uniform in strength of nicotine poison. Destroys Green Fly, Mealy Bug, Thrip and Red Spider. **25c pt., 40c qt., \$1.25 gal., \$5.00 5 gals.**

Tobacco Stems. Used for fumigating plants to kill insects. Invaluable as a mulch for rose beds, lettuce beds, etc. **.50 lb., \$1.75 bale of about 150 lbs.**



Tree Tanglefoot. For protecting trees against climbing insect pests in a simple, economical and effective way; put a band of tree tanglefoot, from 3 to 5 inches wide completely around the tree. A perfect safeguard against Gypsy, Brown-Tail and Tussock Moth, Canker Worms and Ants, and other creeping insects. **30c lb., 85c 3 lbs., \$2.65 10 lbs., \$4.80 20 lbs.**

Weed Killer, Target Brand.

A highly concentrated solution which dilutes one part to 50 parts of water. It is effective within 12 hrs. after application and one application will keep paths and roadways free from weeds for an entire season. **40c qt., 65c 1/2 gal., \$1.00 1 gal., \$4.25 5 gals.**

SPRAYING PUMPS AND APPLIANCES

Myer's Lever Bucket Brass Spray Pump. It has all the advantages of the ordinary barrel pump and bucket pump combined. Is made of brass with ball valves; handle and foot rest are malleable iron. With agitator complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle. **\$3.75**

Myer's Defense Brass Spray Pump. With agitator, complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle. **\$3.50**

Myer's Little Giant Brass Spray Pump. Is provided with a large air chamber. With agitator, complete with hose and Imperial combination, fine, coarse spray and solid stream nozzle, with malleable foot rest. **\$2.75**

Myer's Improved Brass Barrel Spray Pump. The pump sets inside the barrel. The working parts are entirely submerged, thereby avoiding all possibility of losing priming. Has bronze ball valves and brass seats; the plunger is brass, fitted with hemp packing. The cylinder and discharge pipe are all brass. The air chamber is 30 inches in length, enabling the pump to throw a uniform and constant spray. With 15 feet of $\frac{1}{2}$ -inch discharge hose and Vermorel graduating nozzle. **\$8.00**

Myer's O. K. Brass Spray Pump. Can be adjusted by clamps to fit any barrel. The cylinder is made of a solid brass tube with a closed end which passes through a circular hemp packing, which adapts it for pumping hot, cold or any other kind of mixture. The packing gland is adjusted by means of two heavy bolts with which all wear can readily be taken up. The valves can easily be taken out and repaired. The air chamber is made of $2\frac{1}{2}$ -inch steel tube. The handle is wrought steel with adjustable stroke, so as to enable the operator to get up a pressure of 200 pounds or more if necessary. It is fitted for one or two leads of discharge hose. Pump only, without hose or connections. **\$11.50**

Complete with one lead of 15 feet discharge hose and Graduating Vermorel Nozzle. **15.00**

Complete with two leads of 15 feet each discharge hose and Graduating Vermorel Nozzles. **17.50**

Four-foot Pipe Extension. **.25**

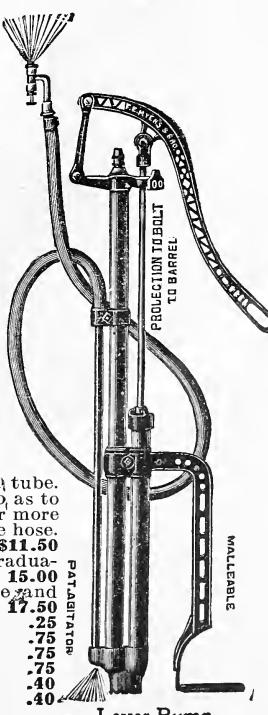
Bordeaux Nozzle. **.75**

Graduating Vermorel Nozzle. **.75**

Meyer's Power Nozzle. **.75**

Imperial Nozzle. **.40**

Sprinkling Nozzle. **.40**



Continued on Pages 50 and 91.

Little Giant

SPRAYING PUMPS AND APPLIANCES

Spraying is of such importance that the Experiment Stations all over this country have given much of their attention to it, and their findings have been of incalculable value. Diseases and insects can no longer exist if the proper insecticide is applied through the medium of an up-to-date spray apparatus.

PARAGON SPRAYERS

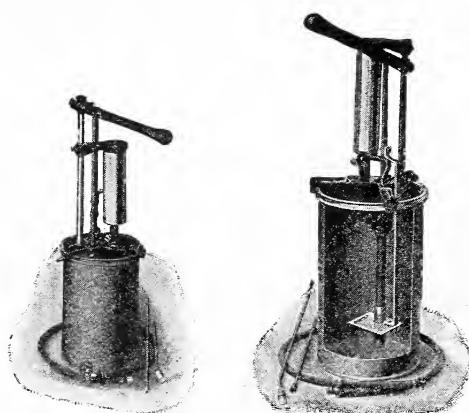
These Sprayers are strongly constructed and can be easily operated by one man. They can be brought in close proximity to the work, thereby eliminating the use of a long expensive hose. Our patented self cleaning strainer prevents the necessity of first straining the liquid to be sprayed. The agitator also keeps the liquid thoroughly stirred.

The spray nozzle has only a 1-32-inch outlet and spreads the liquid well, thereby covering a large surface with a small amount of liquid, making it a very economical sprayer.

All parts of the machine are made of the best material obtainable. The reservoir is made of heavy galvanized iron. All essential fittings and valves are made of brass, making it strong and durable. The body of pump is cast iron, well ribbed to prevent breakage. The screen is of heavy perforated brass and will last many years.

The pump frame can easily be removed from tank when it needs cleaning and by running water through machine after using, the entire machinery can be easily and thoroughly cleaned.

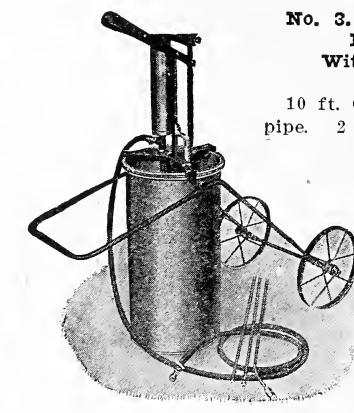
Suitable for spraying insecticides and fungicides on trees, shrubs and vines, as well as the application of whitewash and cold water paints.



No. 0. 3 Gal. Net
Price, \$7.50.
Equipment

4 feet 6-ply Hose. 5 feet 6-ply Hose.
3 feet Spray Pipe. 5 feet Spray Pipe.
2 Spray Nozzles. 2 Nozzles.

No. 1. 6 Gal. Net
Price \$10.00.
Equipment



No. 3. Capacity, 12 Gallons.

Net Price, \$15.00
Without Truck, \$13.00
Equipment

10 ft. 6-ply hose. 7 1/2 ft. spray pipe. 2 spray nozzles.

Mounted on strong steel truck and can easily be wheeled to any desired place. Truck is easily detached when desired.

The above cut represents our most popular and best selling sprayer. Thousands are now in use and giving best of satisfaction.

Nos. 1 and 3 Sprayers can be furnished with solid all cast brass pumps for \$4.00 additional.

No. 4. Capacity, 28 Gal.

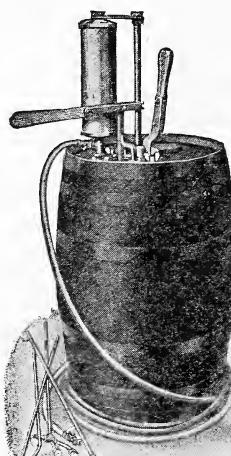
Net Price, \$22.00
Equipment

Not mounted
on wheels,
\$17.00

Equipment
20 ft. 6-ply
hose. 10 ft.
spray pipe. 2
spraying
nozzles.

This is a
very conveni-
ent sprayer,
mounted on
two strong 30
in. wheels.

This sprayer
especially de-
signed for
spraying large
buildings, but
also suitable
for spraying
trees.



No. 5.

Capacity,
50 Gal.
Net Price,
\$25.00

Equipment

25 ft. 6-ply spray
hose. 10 ft.
spray pipe. One
3-way spray noz-
zle. One single
spray nozzle.

This sprayer
has solid cast
brass pump and
large air cham-
ber. It is pos-
itively the very
best hand power
sprayer made
for tree spray-
ing.

No. 6. Sprayer. Not Illustrated.

Capacity, 50 Gallons. Price, \$33.00
Same Design as No. 5.

Equipment

Two 25 ft. lengths 6-ply spray hose.
Two 10 ft. spray pipes.

Two 2-way spray nozzles.

One "Y" Fitting for 2 lines of hose.

Spraying material can be furnished by us; also 12 ft. lengths..... net price, \$3.00
formulas for mixing whitewash. 10 ft. lengths..... net price, 2.50



BAMBOO BRASS LINED SPRAY POLES.

Spraying Pumps and Appliances—Continued

Auto Compressed Air Spray



Auto Spray No. 1

The "Perfection" Sprayer.

Is as near burst-proof as it can be made. The barrel is $7\frac{1}{2}$ inches in diameter, 20 inches high. The pump is 1 $\frac{3}{4}$ -inch seamless brass tubing. The valves are METAL. The top is fastened like the best makes of fire extinguishers. The hose is 5-ply. The nozzle is of the Automatic type. Capacity of Sprayer, 3 $\frac{3}{4}$ gallons. This Sprayer handles whitewash, water, paints, Bordeaux mixtures, etc., perfectly. Price, all Brass—\$7.50, Galvanized \$5.00.

Brandt Easy Sprayer. A compressed air sprayer made of Galvanized Steel. Holds one gallon. Is equipped with automatic shut-off nozzle and is found a very satisfactory sprayer where gardens are not too large—\$2.00

Continuous Spray. Galvanized, with brass tubing; throws a continuous spray. It does the work in half the time and with half the number of strokes required by the old style. Made of tin. 75c each, 3 for \$2.00.

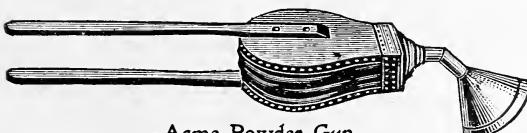
Continuous Spray. Made of Brass. \$1.00 each, 3 for \$2.75.

Glass Jar Sprayer. The reservoir of this sprayer is made of glass, which enables the operator to see ingredients mixing and just how they are working. The glass sprayer will not corrode or rust, and if accidentally broken can be replaced at once with a Mason Fruit Jar. 75c each, 3 for \$2.00.

Tin Tank Sprayer. Only high-grade material used in construction. Strong, durable and satisfactory. 50c each, 3 for \$1.25.

Champion Dry Powder Duster. Adjustable to any width of row. Dusts two rows at a time. Weights about 6 lbs. Comprising 4 tubes, 6 nozzles, 2 straps and oil can. The reservoir holds over a quart of powder. Each.....\$8.00

Little Giant Dry Powder Duster. For Farm, Garden, Vineyard, Tobacco Fields, etc. Machine weighs about 6 lbs; furnished with 3 tubes, 5 nozzles and strap. Distributes any dry powder, Paris Green, etc. Dusts two rows at a time. The reservoir holds one quart. Run entirely by gear. Each.....\$6.00



Acme Powder Gun

fine russet. We also furnish a spreader for distributing the blast.

Dry Powder Sprayer. Easy to operate, strong and durable. Made of heavy tin. Can holds one quart. 65c each, 3 for \$1.80.

Dickey Bug Death Duster. Practical and effective; for applying Bug Death dry to garden vegetables and potatoes. 25c. each, Postage extra.

Acme Powder Gun. The simplest tool for applying poison to growing crops. No poison is left about the fields to kill stock. It requires no base of supplies; all you need carry is a can of dry insecticide and the gun. Without stooping—the elbow does it—it applies any powdered poison on any plant in any desired quantity, any time of the day. The elbow may be detached if desired. The bellows sides are painted a bright vermilion, and the handles finished bright. The leather is a



AMERICAN PLANT TUBS

An excellent new tub, cheap, neat and durable. Made from $\frac{3}{4}$ inch Cypress, with iron handles, 3 iron hoops and 2 coats of green paint.

No. 1.	11 $\frac{1}{2}$ inches diameter,	11 $\frac{1}{2}$ inches high	.....	\$1.00
No. 2.	13 $\frac{1}{2}$ "	"	1.25	
No. 3.	14 $\frac{3}{4}$ "	"	1.65	
No. 4.	16 "	"	2.00	
No. 5.	19 "	"	3.00	
No. 6.	22 "	"	4.00	
No. 7.	25 "	"	5.00	
No. 8.	26 "	"	6.00	

CEDAR PLANT TUBS.

Made of seasoned selected Virginia White Cedar, bound with flat steel hoops at bottom, and galvanized wire hoops in middle and at top.

Painted green, inside and out, and top edge finished with round bevel. No handles.

No. 5.	10 inches diameter,	9 inches high	.....	\$0.45
No. 7.	12 "	"	11 "	.65
No. 9.	14 "	"	13 "	.95
No. 11.	16 "	"	15 "	1.15

No. 2. Pail Size. 10 $\frac{3}{4}$ inches diameter, 8 $\frac{3}{4}$ inches high.....1.30



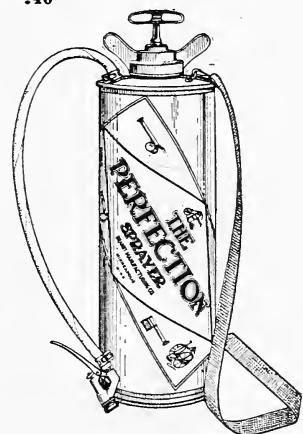
American Plant Tub



Stop Cock

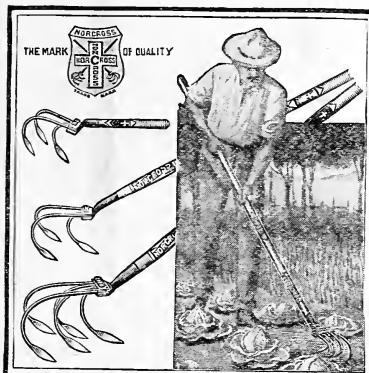


Auto-Pop



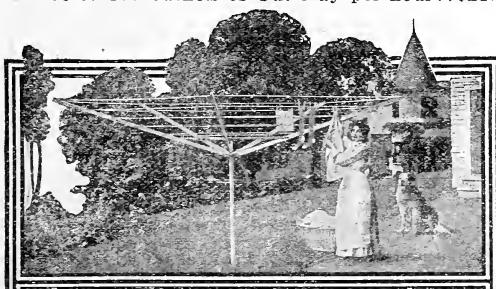
HORTICULTURAL TOOLS AND SUNDRIES

Barrows	Garden	No. 2, small.....	\$3.25
"	"	No. 3, medium.....	3.50
"	"	No. 4, large.....	4.00
"	Railroad	patent wheel and bolted.....	1.75
Baskets	Wire Hanging	8 inch 12c , 10 inch 15c , 12 inch 20c , 14 inch 25c , 16 inch 30c , 18 inch 40c, 20 inch 50c , 22 inch 75c , 24 inch \$1.00	
Bellows	Acme	Is well made, with a solid hard wood head block, hardwood handles, best leather for the bellows, and extra elbow is furnished to tilt the funnel for getting under the leaves of plants and shrubs. \$1.00 each, \$2.70 for 3.	
Bellows	Woodason's	Single cone—small..... \$1.00 Single cone—large..... 2.00 Sulphur..... 1.50	



Norcross Cultivators

CARTS, THE BUTLER STEEL.	
Of unlimited usefulness about the lawn, garden, orchard, stable, etc.; built low down, it is easily loaded and unloaded with barrel, cans, baskets, stones, etc. The detachable box is for vegetables, leaves, fruit, litter, etc. The cart turns clear over for dumping load if desired. Wheels 36 inches high; from out to out of hubs, 42 in. Platform 28x32 in. Boxboards 15 in. high. Capacity 6 cubic feet. Flaring Hopper, 12 in. above box makes capacity 11 bushels for leaves litter, etc.	
No. 4—Plain, (without box) steel wheels 2 in. Tires. \$ 8.00	
No. 5—Plain, (without box) 3 1/2 in. tires..... \$10.00	
Cart Box for either No. 4 or 5..... 3.75	
Flaring Hopper for box..... 5.25	
Canes. 7 to 9 feet long for plant stakes, per 100..... .75c	
Canes. Japanese, Green dyed, 3 1/2 ft. per 100..... .75c	
Canes. Japanese, Natural, 6 ft. per 100..... .75c	
Cutter, Fodder, Tony. 2 knives can be regulated to cut in lengths from 3/4 to 1 1/2 in. Capacity 75 to 100 bushels of Cut Hay per hour..... \$14.00	



DRYERS—HILLS "CHAMPION."

The Reel is made of best material throughout. It is self-fastening and locks to post when in use, and being made separate, can be easily removed when not in use. The post sets in a socket in the ground and can also be removed, thus leaving no obstruction at all in lawn between wash days. All castings of best refined malleable iron and galvanized. They are fitted with either wood post painted or steel tubing post galvanized. No. 1—4 arms, 6 ft. long, 100 ft. line, wood post..... **\$6.00**
No. 3—5 arms, 7 ft. long, 150 ft. line, wood post..... **8.00**
No. 3—5 arms, 7 ft. long, 150 ft. line, steel post..... **9.50**

DANDELION EXTERMINATOR, LIGHTNING.

The only quick, sure and easy way to rid your lawn of Dandelions and keep it free.

The exterminator is charged with gasoline or kerosene and in operation cuts the weed and deposits a few drops of the liquid on the root at the same time. Weeds once properly treated with the exterminator, never grow again, the root being eaten up or rotted by the liquid in a few hours, while if cut with a knife in the ordinary way and not treated, its growth is stimulated, and it grows stronger than ever..... **\$2.00**.

Dibbles. Iron, for transplanting plants..... **.50c**

Edging Knife. For cutting edges of walks and beds..... **.50c**

Forks, Digging or Spading..... **\$1.00**

" Hay. 6 foot handle, 3-tine..... **.60**

" Manure. Cast steel, oval, 5-tine, extra
heavy..... **.75c**

" Long Handle..... **.75c**

" Hand-Weeding. Gem..... **.25c**

" " Imported; small size..... **.65c**

" " Imported; large size..... **.75c**

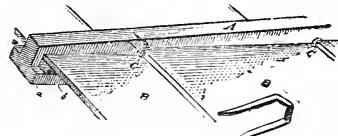
Fruit Pickers. Made of galvanized steel wire; attaches to pole of any length; price, without pole..... **.30c**

Garden Reels. Iron, painted..... **.75c**

Lines. About 250 feet..... **.75c**

Glass Cutters, Red Devil. The best cheap cutter on the market. For all around usefulness we prefer it to a diamond. **15c** each, **\$1.50** doz.

Glazing Points—Peerless. Will stop your glass from sliding, made of galvanized steel wire. No rights or lefts; can be used on either side.



No. 1—For small single-thick glass.

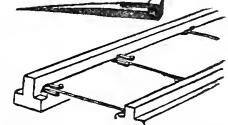
No. 2—For large single-thick glass.

No. 2 1/2—For double-thick glass.

Per 1,000, **.60c**. By mail, **.70c**.

Pincers. For driving the points, **.50c**.

Glazing Points, Selbert's Zinc. Are positively the best; last forever; a sure preventative of glass slipping. Effective on large or small glass; easy to drive—easy to extract. **.40c** per lb. By mail, **.10c** per lb. extra.



Grass Hooks. American plain back..... **.30**
English, riveted back..... **.40**

Guns, Insect Powder. Cyclone..... **.10**
" " Jumbo..... **.20**

Hoes. Acme Weeding and Cultivating. Double prong..... **.50**

English Scuffle or Push, imported 6 in. **.45**
Standard Socket Garden..... **.40**

Ladies' Light Garden..... **.30**
Onion. One end square; opposite end 1 prong..... **.25**

Onion. One end square; opposite end 2 prongs..... **.30**

Grubbing. With handle..... **.60**
Sandusky or German..... **.45**

Weeding. With 4 tooth rake..... **.40**
Weeding. With 6 tooth rake..... **.50**

Hoe and Edge Trimmer Combined—Hough Patent...... **.50**
Hose, Rubber. (See Lawn Requisites.) **\$1.25 to \$2.00**

Knives—Pruning. Budding..... **1.00 to 1.75**
" Asparagus. American..... **.30**

Labels, Wood. For pots, painted..... **.00**
4x 5/8-inch, per 100, **15c**; per 1000..... **.00**
5x 5/8-inch, per 100, **15c**; per 1000..... **.15**

6x 5/8-inch, per 100, **20c**; per 1000..... **.25**
8x 5/8-inch, per 100, **30c**; per 1000..... **.40**

10x 5/8-inch, per 100, **40c**; per 1000..... **.50**
12x 1 1/2-inch, per 100, **70c**; per 1000..... **.60**

Labels. Tree, notched, copper wired, per 100, **.20c**; per 1000 **\$1.50**.

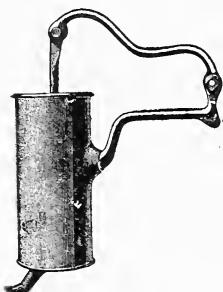
Labels. Tree, copper, No. 1, per 100..... **.50**
No. 2, per 100..... **2.00**



HORTICULTURAL TOOLS AND SUNDRIES—Continued

Lamp Defiance—Fumigating. (For use in Greenhouses). It burns kerosene. It is made of heavy tin throughout. The oil fount is drawn in one piece so it cannot leak. The cup that holds the Nicoticide (or similar preparation) is also drawn in one piece and cannot leak. No glass about the lamp to be broken. Used by prominent Market Gardeners all over the Country. 50c each, \$5.00 per dozen.

Lawn Rollers, Lawn Mowers, etc., see Lawn Requisites.



Mastica Machine

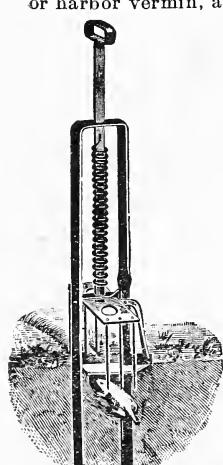
1/4-gallon	.....	\$0.40
1/2 gallon	.....	.75
1 gallon	.....	1.35

MASTICA GLAZING MACHINE. See cut..... \$1.25



Mats, Hot - Bed—

Strong Burlap. Indestructible, cheap and warm. These are made of strong Burlap, warmly lined with waste wool and cotton, which is quilted to hold in position. Warmer than straw, and more easily handled. Do not retain moisture, freeze, rot, mildew, or harbor vermin, as straw does.



Mats, Burlap. 76x76 inches. Price, \$1.50 each.

Mats, Water-Proof Duck. 76x76 inches. Price, \$1.85 each.

Mattock, Long Cutter. With handle. \$1.00

Mattock, Cronk's Garden.50c

Mole-Trap—Reddick. The best trap on the market. No mole can pass under this trap and live.75c

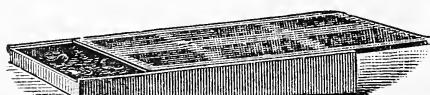
Oil, Lawn Mower. This is a handy can filled with fine oil, manufactured expressly for lawn mowers, bicycles, etc. Per can.15c.

Pliers, Wire. For cutting wire.40c

Post Hole Diggers, Hercules \$1.25

Potato Hooks. 4 tine.... 60c

Plant Bed Cloth. A cheap substitute for glass, answering many uses equally well. Light and easily shipped. The medium and heavy are made of stout, tarred, muslin that sheds water, protects against weather, etc.



Plant Bed Cloth—Light Grade. Per yard.... 6c
“ “ “ Medium Grade. Per yard.... 10c
“ “ “ Heavy Grade. Per yard.... 14c
 Write for special prices on large lots.



Detroit **Kansas** **Happy Thought**
Pruning Knives, Tree—Kansas Improved—The work that the Improved Kansas Pruning Knife will do is wonderful. Five or six trees can be trimmed with it while one is being done with other knives. It will cut any green limb from the very smallest to one that is one and one-quarter inches in diameter. Any length handle can be used, giving the great advantage of standing on the ground to do the work.
 Price \$3.00 With 8 ft. extension pole. \$4.00

Pruning Knives, Tree—Happy Thought—The Happy Thought Knife will cut a limb three-quarters of an inch in diameter. This knife with its pump gun action, straddle fork head makes it complete for setting back, budding, shaping and trimming out the too thick growth.
 Price, 6 ft.... \$1.50 Price, 8 ft.... \$1.75
 Price, 10 ft.... 2.00

Pruning Knives, Tree—Detroit—The Detroit Knife will cut a limb one inch in diameter, doing the work easily because of the great leverage and the drawing cut.
 Price, 6 ft.... \$1.50 Price, 8 ft.... \$1.75
 Price, 10 ft.... \$1.00

Pruners—Little Giant Tree—To use on a pole. \$1.00
Waters' Tree—With pole—6 ft.... \$0.70
 Price, 8 ft.... \$0.80 Price, 10 ft.... \$0.90
 Price, 12 ft.... 1.00
 Extra Knives, 25c. By mail, 30c.

Pruning Shears—Red Clipper—This shear has a slot in blade whereby we get a sliding cut, and the shank of the blade is so constructed as to have a hinge movement, enabling the operator to get a powerful leverage.

No. 1 \$2.25 No. 2 \$1.75
Pruning Shears—Tip-Top 75

Pruning Shears, Orchard King—A two hand Pruning Shear made with compound levers and so constructed that it will do its work with one-third, or even better, one-fourth the effort or power required on the ordinary shear.
 Price \$3.00



Pruning Shears, Hand

PRUNING SHEARS, HAND.
 German, 8 1/2 inch.... \$0.50 French, 8 inch.... \$1.25
 Wiss heavy, extra fine quality, 9 inch.... 2.00

HORTICULTURAL TOOLS AND SUNDRIES—Continued

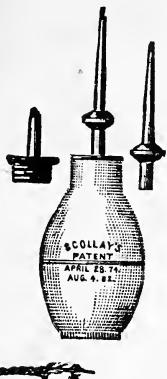
PUTTY—TWEMLOW'S LIQUID

GLAZING. For bedding glass in sash or for filling cracks or seams in joints or frames of greenhouses or hotbeds. It makes a solid bed, impervious to moisture and holds glass in its place, and will stop any crevice or fault. It is applied with machine, bulb or brush. One gallon will cover about 600 running feet (one side.)

Gallon..... \$1.50

PUTTY BULB. A useful tool for applying liquid putty and glazing greenhouses. \$1.00. By mail..... \$1.10

RAFFIA. The best tying material for plants, also used for making hats, baskets, etc. Per lb., 25c; 5 lbs., for \$1.00. If sent by mail, 10c per lb. extra.



RAFFIA COLORED. For making baskets and fancy work in following colors; Black, Blue, Brown, Green, Orange, Pink, Red and Yellow..... 2 oz., 10c; 1 lb., 60c. If sent by mail 10c per lb. extra.

REEDS (RATTAN). For basket making, etc.

No.	Oz.	1/4 Lb.	Lb.	No.	Oz.	1/4 Lb.	Lb.
2.....	8c	30c	1 00	4.....	7c	25c	75c
3.....	7c	25c	75	5.....	6c	20c	60c

If sent by mail add 2c per oz.; 5c for 1/4 lb.; 15c for lb. for postage.

RAKES—See Page 96.

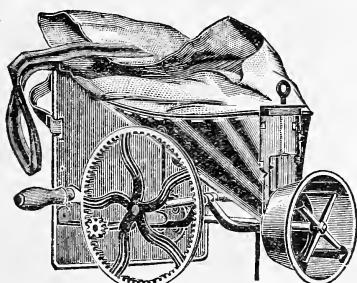
SAWS—PRUNING. 16-inch, 60c; 18-inch..... 75
" " Double Edge..... 75



SASH, HOT-BED UNGLAZED. Made from strictly clear cypress lumber. White lead used on the tendons, and Iron Dowel Pins at the corners.

No. 1—3x6 ft., 3 rows, 10 inch glass each..... \$1.55. Doz..... \$17.00
No. 2—4x6 ft., 5 rows 8-inch glass, each..... \$2.10 doz..... \$23.00

SCYTHES—AMERICAN..... \$0.90
" " Weed or Brush 90
" ENGLISH LAWN, 30 to 36 inches. \$1.25 to 1.50
" SNATHE. PEERLESS 75
" STONES. TALACRE English round..... 15
" STONES. Flat 5c; round 10c



SEED SOWER—CAHOON. The difficulty in sowing is entirely overcome by the use of the Cahoon Broadcast Seed Sower, which can be handled with ease by an entirely inexperienced person and will sow much more evenly than can be sown by hand. Weight when packed for shipment, 8 pounds..... \$3.00

SEED SOWER—LITTLE GIANT. For sowing wheat, oats, rye, rice, flax, grass seed, clover seed, etc., in fact any kind of seed broadcast. They will save their cost almost daily in saving of seed, to say nothing about saving of time and more even distribution, which will have a great effect on the crop. It weighs but three pounds..... \$1.25

SEED TRYERS—Steel-pointed pocket, nickel-plated, with cap..... 1.25

" " Large, for sampling Orchard Grass. Blue Grass, Coffee, etc..... 1.75

SHEARS—CARDEN OR HEDGE. With notch, English. Short handle..... 8-in..... 1.25
" " " " 9-in..... 1.50
" " " " 10-in..... 1.57

SHOVELS—STEEL. Square point..... \$1.00
" " Round point..... 1.00
" " Long handle square point..... 1.00
" " Long handle round point..... 1.00

SILKALINE—For stringing smilax, etc. Fast green color will not fade or break. Two oz. spool..... 20

SPADES—Steel polished..... 1.00

" NURSERY, Steel extra heavy strapped..... 1.50

SPRINKLER, RUBBER—SCOLLAY'S. Indispensable for floral work and window gardening.

Large size \$1.00. By mail \$1.10.

Medium size, 75c. By mail, 82c.

Small size, 50c. By mail, 55c.

THISTLE OR DOCK CUTTERS. Narrow blade, with handle for removing thistles or weeds from lawns; with foot rest..... 50c

TROWELS—ENGLISH. The best trowel in the world. It is of one solid piece of steel and will outwear several of the ordinary sort..... 6-in., 60c; 7-in., 75c

TROWELS—AMERICAN. Solid shank..... 40c

TROWELS—AMERICAN. Riveted..... 6-in. 20c
" " Ordinary..... 6-in., 10c;
7-in., 15c.

TROWELS—TRANSPLANTING. 6-in., 15c; 7-in., 20c.

THERMOMETERS—JAPANNED. Tin case.

Common Grade..... 8-inch, 15c; 10-inch, 20c

Medium Grade..... 8-inch, 60c; 10-inch, 75c

Standard Grade. Made with seasoned tubes; mounted by clasps on heavy metal; very accurate. 8-inch, 75c; 10-inch, \$1.00; 12-inch, \$1.25.

Special Grade..... 8-inch, 35c; 10-inch, 50c

Maximum and Minimum Self Registering. \$3.00

Hot-Bed or Mushroom..... 2.00

Dairy. 10-inch glasses..... 25c

Dairy, Standard Grade. Hand graduated and very accurate. The tube is magnifying, and the entire Thermometer is exposed to view, as it floats in the cream at the middle bulb..... 50c



Watering Pots—

Galvanized.

Long Spout,

Made from best

quality of iron,

and heavily

galvanized.

Two roses with each pot

for fine and coarse watering.

6 qt. \$1.85; 8 qt. \$2.00;

10 qt., \$2.35; 12 qt., \$2.75

WAX, GRAFTING. 1/4 lb., 10c;

1/2 lb. 15c; 1 lb. 25c

(By mail, add 10c per lb.)

WEEDERS—CLEVELAND LAWN.

The best and simplest weeder.

Removes the weeds without disturbing the sod or disfiguring the lawn.....

50c

EUREKA. The best hand weeder; thin forged steel fingers. 25c

EUREKA. With 2 foot wood handle..... 30c

HAZELTINE. One of the best; solid steel; good size and durable

25c; by mail, 30c

EXCELSIOR. A very useful little tool for weeding seed beds,

stirring the ground, etc..... 10c; by mail, 15c

LANG'S. Allows use of hands in working..... 25c; by mail, 30c

NOYE'S HAND..... 25c; by mail, 30c

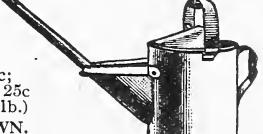
Watering Pots—Galvanized

Short-Spout, 4-qt., 45c;

6-qt., 55c; 8-qt., 65c;

10-qt., 75c; 12-qt., 80c;

16-qt., \$1.00.



WIRE FOLDING PLANT STANDS.

They pack closer than any other plant stand for shipment. The ends are made of flat steel and have porcelain castors. Can be opened or folded in a few seconds time by simply spreading the stand apart at the bottom, and dropping the cross bars into their places.

The construction of the shelves or trays are such that there is more room for the pots and foliage than any other plant stand that takes the same amount of room on the floor.

3 Tray Wire Stand—Trays 7 1/2 in. wide x 30 in. long..... \$3.00

2 " " " " x 30 " " " " 2.25

1 " " " " x 33 " " " " 1.50

WIRE WINDOW SHELF FOR PLANTS. Strong, compact, with adjustable steel brackets; can be applied to any window moulding on flat part of same. Brackets are constructed so as to allow for curtains between window and plants.

36-in. Shelf, by 7 1/2 in. wide, with Brackets complete, \$1.00

42-in. Shelf, by 7 1/2 in. wide with Brackets complete, \$1.20

LAWN REQUISITES

The Dunham Two Section "Water-Weight" Roller with counter-balancing handle weights



Dunham Roller Bearing Lawn Roller.

If you wish a fine lawn, you must use a Lawn Roller. In no other manner can a smooth compact surface be maintained. It packs the soil, thus retaining the moisture throughout the season, enabling young and tender grass to secure the necessary nourishment.

Dunham Lawn Rollers have automobile roller bearing axles and are easier to operate than any other. The

only Lawn Roller made with roller bearings, and costs no more than the ordinary rollers.

The handle weights on Dunham

roller bearing rollers not only keep the handle upright when not in use, but also add speed and ease of operation.

Dunham—Water Weight Lawn Rollers.

Dunham Water Weight Rollers are electric welded—no rivets used—the drum cannot possibly leak.

No. HW-10. 2 section, 24 inches long and 18 inches in diameter. Weight, empty 160 lbs. Weight filled with water, 360 lbs. Weight filled with sand, 560 lbs. Price **\$15.50.**

No. HW-12. 2 section, 32 inches long and 24 inches in diameter. Weight empty, 230 lbs. Weight filled with water, 710 lbs. Weight filled with sand, 1060 lbs. Price **\$20.40.**

No. WB-11. Like HW-10 except that the handle is held up by a patented attachment instead of by counterweights. Price, **\$14.40.**

Dunham Roller Bearing Lawn Rollers.

The rollers are smooth on the face, and finished in aluminum. The outer edges are rounded to avoid cutting the lawn.

Length Diam. Weight Price
No. 401—2 Section. 16 in. 15 in. 150 lbs. **\$7.60**

No. 404—2 Section, 20 in. 20 in. 250 lbs. **12.40**

No. 410—2 Section, 24 in. 24 in. 450 lbs. **22.00**

No. 412—3 Section, 30 in. 24 in. 500 lbs. **24.40**

ONE HORSE LAWN ROLLERS.

No. 444—With Steel Frame and Steel Weight box, 4 Section, 40 inches long and 28 inches in diameter. Weight 1000 lbs. **\$65.00**

No. 450—4 Sections, 48 in. long and 20 in. in diameter. Weight 800 lbs, without Weight Box, **\$36.00**

Lawn Cleaner, Pennsylvania.



This machine will clean your lawn more thoroughly and quicker than three or four men can do it with hand rakes, and greatly benefit the turf. It leaves the grass standing up straight and strengthens up crab grass and other running weeds so they will be cut close

by the lawn mower and sooner destroyed.

In the autumn it takes up the heaviest fall of leaves. It is made of metal, wood and canvas, and is put together in the most durable and thorough manner. It combines strength and durability with light construction. Price **\$16.00.**

LAWN RAKES.

Automatic—Self-cleaning, best hickory, 26 teeth. **60c**

Lawn Queen, Wire. Is reversible, and can be used for grass or leaves, 24 teeth. **50c**

Ole Olsen. Made of best hickory. **50c**

Lawn King—Wooden. 22 teeth. **35c**

Wooden, Hay. **20c**

English Daisy. For lawns, for tearing off daisy and dandelion heads. **\$2.75**

Rakes—Steel Garden. 8 teeth **35c**; 10 teeth, **40c**; 12 teeth, **45c**; 14 teeth, **50c**; 16 teeth, **55c**.



Lawn Sprinklers

California Lawn Sprinkler.

Four Arm Lawn Sprinkler which can be operated with a moderate

pressure, covers a wide area and distributes the water evenly. The revolving arm throws the water in a fine spray into the air and the motion produces a fine mist. Height about 1 ft. **\$1.50**

The Ring Lawn Sprinkler, Allens. The simplest lawn sprinkler made

—no revolving parts to wear and get out of order or leak. Easily moved about the lawn—made of polished brass—light, durable and economical. Price, **.50c**

Crescent Sprinkler.....**60c**Square Fountain Lawn Sprinkler.....**60c**

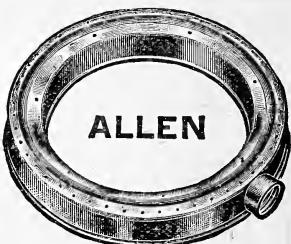
heavy sheet brass and polished. Will sprinkle along the side of your house and into the corners, without throwing into the house, or along the front walk and reach the edges without throwing water over the walk. Price **.60c**

Boston, Spray.

These render the same service as does the rose of a watering can. They are screwed on the end of the hose. Coarse and fine, $\frac{3}{4}$ inch. **.60c**

Unit Sprayer.

For spraying insecticide or soap solutions. The sprayer screws to the hose in the place of the nozzle, and the nozzle is attached to the other end of the coupling. **\$3.50** each.



GARDEN HOSE AND APPLIANCES.

Hose, Rubber.

"Long Run," best hose on the market, finest quality of rubber being used in its manufacture. Will not kink and will last for years. We can supply in any length; $\frac{1}{2}$ inch, **16c** per foot; $\frac{3}{4}$ inch, **18c** per foot.



Hose. For Paragon Spray Pumps, 14c per foot.

Hose Reel.

Wooden **75c**.

Hose Reel.

Iron **\$2.25**.

Hose Menders.

"Hudson," Brass, $\frac{1}{2}$ and $\frac{3}{4}$ in., sizes, **50c** doz.

Hose Menders.

Brass Bands for $\frac{1}{2}$ and $\frac{3}{4}$ inch size, **20c** per doz.

Hose Menders—Pliers

"Hudson," **20c** each.

Hose Menders.

"Hudson," box containing pliers, 6 hose menders and 20 bands, **60c** per box.

Hose Menders.

Perfect Clinching, **\$1.00** doz., **10c** each.

Hose Menders.

Wooden, $\frac{1}{2}$ inch, and $\frac{3}{4}$ inch, **15c** doz.

Hose Coupling Bands.

Single; **5c** each, **50c** doz.

Hose Coupling Bands, Double.

10c each, **\$1.00** per doz.

Hose Coupling Bands.

For Paragon Pump, each **5c**.

Hose Washers.

Rubber, $\frac{3}{4}$ inch, **10c** doz.

The Snap Hose Coupler.

Best hose coupler, being simple, durable and always water tight, for $\frac{3}{4}$ in. hose.

No. 1. Screws on the hydrant or the old threaded

coupling and stays there. **20c** each, **\$2.00** doz.

No. 2. Screws into the old threaded coupling or into the nozzle and sprinkler and stays there. **10c** each, **\$1.00** doz.

No. 4. Used on nozzle end of hose and can be connected with any nozzle by using No. 2 as an intermediate. Used with No. 5 for connecting two lengths of hose. **10c** each, **\$1.00** doz.

No. 5. Goes on end of hose that attaches to either faucet or ground pipe. It is used with No. 4 for connecting two lengths of hose. **20c** each, **\$2.00** doz.

Hose Nozzle.

Graduating, **50c** each.

Hose Nozzle.

Gem, graduating, **50c** each.

Hose Nozzle.

Boss, graduating, **50c** each.

Hose Nozzle Holder.

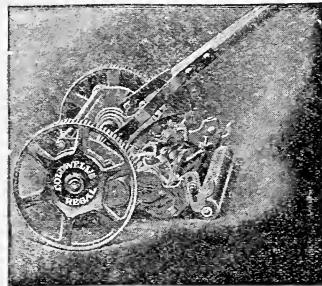
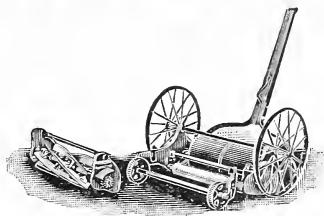
Galvanized, **15c** each.

COLDWELL'S DEMOUNTABLE CUTTER UNIT MOWER

It has many unique and patented features which will appeal strongly to the professional Golfer, the Green Committee and all those interested in exceedingly fine and close cut lawns.

This CUTTER UNIT consists of the Revolving Cutter, the bottom or Stationary Knife and the parts necessary for adjusting the same to each other. It is set in the main frame of the mower and held in position by three thumb screws. It can be attached or removed in less than a minute. This cutter unit being separate and independent is not affected by any twisting or straining to which the main frame may be subjected in passing over rough and uneven ground.

16-inch, \$25.00; 18-inch, \$30.00, including an extra cutting unit.



COLDWELL'S REGAL BALL-BEARING

The drive wheels of Coldwell's Regal mower are locked fast to the opposite ends of a steel shaft, which is supported near its ends by ball bearings. The ball bearings are fitted with adjustable cones, by means of which the wheels can always be made to run true, no matter how much the machine is worn.

The ratchets of Coldwell's Regal Mowers consist of three large malleable iron pawls located in each of the two drive gears. These are the largest and slowest moving gears in the machine, thus providing ample room for a suitable ratchet. (These pawls are guaranteed indestructible through wear.)

The stationery knife of Coldwell's Regal mower is channel shape, being double edged and reversible, which not only prevents its springing or sagging, but also provides it with two cutting edges. When one edge is worn down, it can be reversed. Another important feature of this channel shaped knife over the ordinary flat knife is that there is no flat surface presented to the revolving cutter for it to wear a long dragging surface in.

16 in., \$8.50; 18 in., \$9.25; 20 in., \$10.00

THE COLDWELL "RAJAH" BALL BEARING

Is a strictly high-grade ball-bearing. It is made of first-grade material throughout; the workmanship and finish are unsurpassed. It has large drive wheels (10 $\frac{1}{4}$ inches high), thus insuring lightness of draft. The large diameter five-blade revolving cutter makes it an exceptionally good high-class lawn mower, with a very fine cut. It is provided with flat sliding pawl ratchets; the adjustment of the bearings and the bottom knife are the simplest ever made. The adjustment of the bearings is accomplished with one screw conveniently located at the end of the revolving cutter, by means of which all wear can be taken up, and a locking screw holds them securely in place. This mower is furnished with our patent terrace mowing arrangement, reversible channel-shaped bottom knife, and is so made that our noiseless grass catcher can be attached. It is fully guaranteed in every respect.

16 in., \$7.50; 18 in., \$8.25; 20 in., \$9.00

COLDWELL'S IMPERIAL HIGH WHEEL

We claim that the Four-Blade High Wheel Imperial is just the mower for use on 90 percent of our lawns. The workmanship upon it is superior to that of any other make.

SURURBAN BALL-BEARING CADET LAWN MOWER..... 14 in., \$6.75; 16 in., \$7.50; 18 in., \$8.25; 20 in., \$8.75
14 in., \$3.75; 16 in., \$4.00
14 in., \$2.75; 16 in., \$3.00

Coldwell's Demountable Cutter Unit Horse Lawn Mower

The Demountable Cutter Unit Horse Mower is constructed upon an entirely new principle and is a wide departure from anything of the kind ever made. The cutter section, which is the vital part of a lawn mower, is made into a unit and is independent and removable from the main frame of the mower. This unit consists of a simple frame containing the revolving cutter, the bottom or stationary knife and parts necessary for adjusting the same to each other. It is attached to the main frame of the mower by four locking screws and can be attached or removed in less than a minute. It being separate and independent of the main or larger frame, it relieves the knives from the twisting and strain that usually occurs in the frame of the ordinary horse mower when in use on rough ground.

This unit, being the cutter section of the mower, is the only part necessary to send in to the factory for sharpening or adjusting. The great convenience in handling and the saving in freight and cartage charges between shipping an entire mower and the unit only, will be fully appreciated by all users of horse mowers. 30 in., \$100.00; 35 in., \$125.00, including an extra cutting unit.

GEARED ROLLER OR GOLF MOWER

This mower is made to meet the demand for a machine that will more perfectly cut borders, verges, etc., and yet retain all the other features necessary in a mower for general work. Coldwell's Roller Mower has brass bushings and triple pawl ratchets. The roller tends to make a smooth and even soil, and rolls down upheavals caused by dampness and worms. The machine with six blades

is highly recommended by most of the leading golf clubs in America for work on putting-greens.

16-inch, including grass box, \$13.50
18-inch, including grass box, \$15.50

COLDWELL IMPROVED HORSE LAWN MOWER

This well known standard Mower has side draft attachments, to enable the horse to walk on the cut grass only, and caster rollers, which will not mark the lawn. Evenness of cut is assured by an adjustment which raises or lowers the two sides at the same time by means of a simple lever movement; the same lever serves the purpose of raising the knives from the ground when driving over gravel walks or roads. The mowers are fitted up with steel shafting and composition split bushings, and great care is taken to have the workmanship perfect.

EACH MOWER IS GUARANTEED TO GIVE ENTIRE SATISFACTION TO THE PURCHASER.

30-inch, complete, with shaft and seat, \$60.00.
35-inch, complete, with shaft and seat, \$70.00.
Coldwell Pony Mower, with grass box, no shafts, 25-inch, \$37.50.

COLDWELL'S LAWN EDGER

It is equipped with fine cut gears, sliding-pawl ratchet, the best tool steel bottom knife and is made to meet the demands of a really first class lawn trimmer. Price, \$5.00.

NOX ALL GRASS CATCHERS

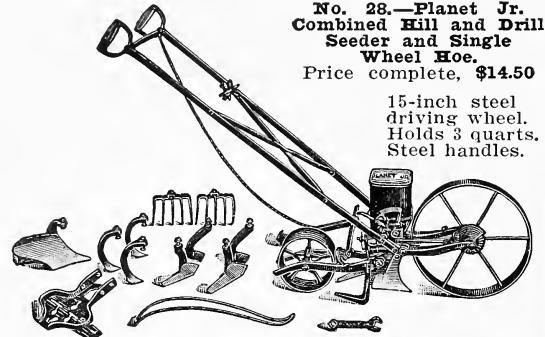
No. 500. Made to fit Mower, 12 to 16 in.....	\$0.75
No. 510. " " " 16 to 22 in.....	.75
No. 810. " " " 18 to 22 in.....	1.25

PLANET JR. GARDEN AND FARM TOOLS

PLANET JR. means on a farm or garden tool the world over that it is the latest-improved, lightest, strongest, most useful and economical tool of its kind. With Planet Jrs. come **less work—bigger crops—more money.**

They make you independent of slipshod help and give you time for rest and enjoyment besides. Designed by a practical farmer; used throughout the world. Fully Guaranteed.

The Planet Jr. 1914 catalogue is an instructive handbook of short cuts to best results for farmers and gardeners. It illustrates 55 latest-improved Planet Jr. tools, showing many in **actual use.** 72 helpful pages. Write for it at once!



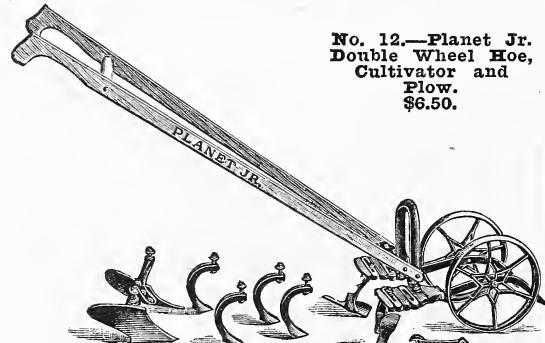
The most accurate seeder in action and the nearest perfect in construction that we have ever offered. Accuracy of construction makes for accuracy in operation, and it saves seed and labor and insures an even stand of plants and a correspondingly satisfactory crop. Has automatic feed-stopping device, valuable seeder index and complete set of cultivator attachments. Indestructible **steel frame.**

No. 29.—Planet Jr. Hill and Drill Seeder. Same as No. 28, as a hill and drill seeder. No cultivating attachments, \$11.00.



Plants all garden seeds accurately in hills 4, 6, 8, 12 or 24 inches or in drills any thickness. Hoes, cultivates, and plows quickly, and thoroughly. Popular with farmers and gardeners everywhere.

No. 4.—Planet Jr. as a Hill and Drill Seeder only. \$8.50.



The **Planet Jr. Double Wheel Hoes** are the greatest cultivating tools for the onion, and for every grower of garden crops from drilled seed. They do more and do it better and easier than can possibly be done in any other way. Works both sides of plants thoroughly and rapidly at one passage, until crops are 20 inches high. Indestructible **steel frame** and steel leaf lifters.

No. 28.—Planet Jr. Combined Hill and Drill Seeder and Single Wheel Hoe.

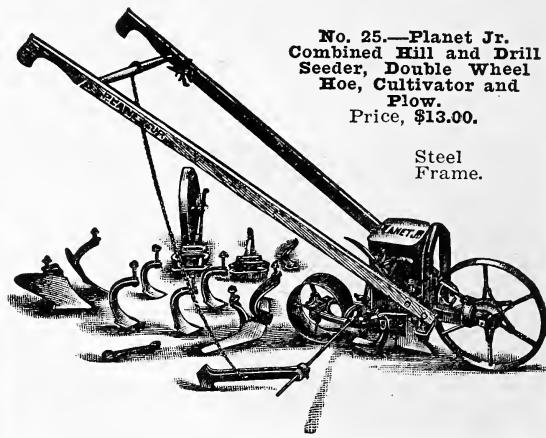
Price complete, \$14.50

15-inch steel driving wheel. Holds 3 quarts. Steel handles.

No. 25.—Planet Jr. Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow.

Price, \$13.00.

Steel Frame.



This combined machine is intended for gardeners who have a large enough acreage in crops for a Double Wheel Hoe to be used to good advantage, and yet prefer not to buy seeders and wheel hoes separately.

The **simplicity** of this tool, both as a seeder and as a wheel hoe, makes the combination thoroughly practical.



No. 14.—Planet Jr. Double Wheel Disc Hoe, Cultivator and Plow.

\$7.50.

A new tool which gives excellent satisfaction, especially pleasing to all who work peat lands. There are **three adjustable discs** on each side, oil tempered, which may all be used at once or one or two on a side, as preferred.

The set of **Prong Cultivator Teeth** will be found invaluable in general cultivation. The tooth next to the row is narrow and is arranged to run shallow, the middle tooth is wider and runs $\frac{1}{2}$ inch deeper, while the outside tooth is still wider and runs another $\frac{1}{2}$ inch deeper, so that the work is finer and shallower next to the row, to avoid injury to the plants, and deeper in the center. The teeth are also set out of line from front to back, which makes them work with greater freedom.

No. 13½.—Planet Jr. Double Wheel Disc Hoe. Same as No. 14 but has one set of discs and one pair of leaf lifters only. \$5.50.

No. 11.—Double Wheel Hoe. Has one pair of 6-inch hoes, one pair 4½-inch hoes, two pairs hollow steel cultivator teeth, one pair plows, two 3-tooth rakes two 5-tooth rakes and two leaf lifters. Price, \$8.50.

The disc and cultivator teeth attachments will fit the other single and double wheel hoes (except No. 19) and are sold separately.

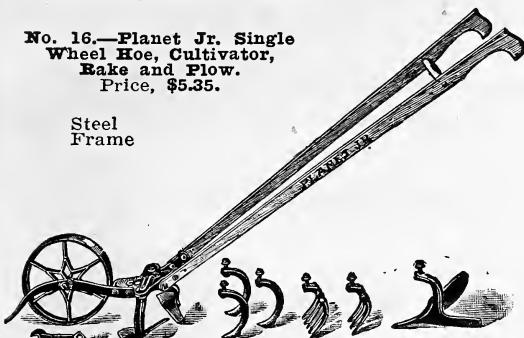
Discs, per pair	\$2.25
Cultivator teeth, per pair	1.30

PLANET JR. GARDEN AND FARM TOOLS—Continued.

We offer these Single Wheel Hoes as the highest type of their class. They have a great variety of tools which adapt the implements to a large variety of work, and there is scarcely any garden culture of which they are not capable.

No. 16.—**Planet Jr. Single Wheel Hoe, Cultivator, Bake and Plow.**
Price, \$5.35.

Steel Frame



It is light, handy, and adapted to almost every garden use. Has leaf guard for close work and lasting steel frame.

No. 17.—**Planet Jr. Single Wheel Hoe.**
Price, \$4.50.



You can do more and better hoeing with it in one day than you can do in three days with a hand hoe.

No. 19.—**Farmer's Single Wheel Hoe, Cultivator and Plow.** A cheap and effective wheel Hoe, high wheel and standard, slotted for depth regulation. Price, \$3.50

Planet Jr. Fire Fly Garden Plow.....\$2.25

No. 30.—**Planet Jr. Single Wheel Hoe, Cultivator, Plow, Bake and Marker.**
Price, \$7.50.

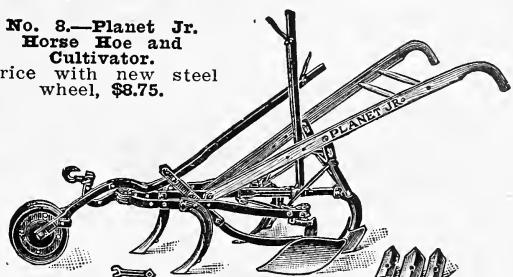


No. 30 is the Single-Wheel Hoe portion of No. 28 Combined Seeder and Wheel Hoe.

This tool has a 15-inch wheel, and the wheel, the frame and the handles are all made of steel, so the tool is as light and strong and almost indestructible. It is the best Single-Wheel Hoe and has the fullest equipment.

No. 38.—**Single Wheel Disc Hoe, Cultivator and Plow.** 1 set discs, 1 pair 3-prong cultivator teeth, 1 plow, 1 leaf lifter.....\$6.50
Planet Jr. Grass Edger.....\$6.25
Double Moldboard Plow.....1.55
Steel Cultivator Teeth and Bolt.....35
Hoes Complete, 4½-inch, per pair.....80
Hoes Complete, 6-inch, per pair.....90
Plows for Double Wheel Hoes, per pair.....1.10
Plow for Single Wheel Hoe, each.....1.10

No. 8.—**Planet Jr. Horse Hoe and Cultivator.**
Price with new steel wheel, \$8.75.



It does more kinds of work better, quicker, and easier than any other cultivator. Indispensable on the up-to-date farm.

No. 7.—**Planet Jr. Horse Hoe and Cultivator.** Same as No. 8 without the depth regulator. With new steel wheel, \$8.25.

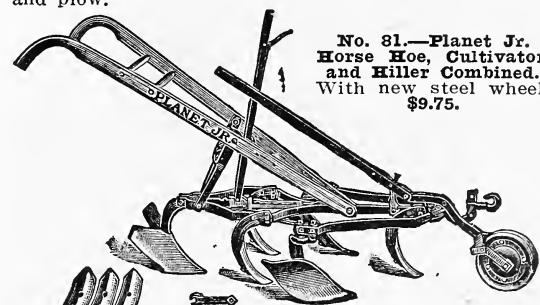
No. 9.—**Planet Jr. Horse Hoe and Cultivator.** This tool has a plain wheel instead of the lever wheel. With cast wheel, \$7.25; without wheel, \$6.50.

No. 10.—**Planet Jr. Horse Hoe, Cultivator and Hiller.**
With new steel wheel, \$7.50.



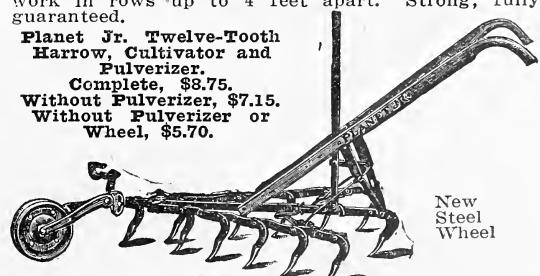
This is new and already a favorite. Finishes at one passage, rows up to 3½ feet apart even if they vary in width. Capital level cultivator, hillier, plow, furrower. Can be fitted with vine-turner attachment and plow.

No. 81.—**Planet Jr. Horse Hoe, Cultivator and Hiller Combined.**
With new steel wheel, \$9.75.



This is our latest, best tool of the kind. Thorough work in rows up to 4 feet apart. Strong; fully guaranteed.

Planet Jr. Twelve-Tooth Harrow, Cultivator and Pulverizer.
Complete, \$8.75.
Without Pulverizer, \$7.15.
Without Pulverizer or Wheel, \$5.70.



New Steel Wheel

Planet Jr. 12-Tooth Harrow, Cultivator, and Pulverizer is invaluable in strawberry and truck patches and the market garden. Its 12 chisel-shaped teeth and pulverizer leave the ground in finest condition without throwing dirt on plants.

A strawberry runner attachment consisting of a 10-inch flat steel disc mounted on an outrigger. Extra, Price, \$1.85

PRAIRIE STATE SAND TRAY INCUBATORS

If you are in search of the best Incubator manufactured, the one that will hatch the largest number of strong, vigorous chicks, the Prairie State is the machine to buy.

PRICE LIST.	
No. 0.	100 hen eggs; 135 lbs. crated \$18.00
No. 1.	150 hen eggs; 160 lbs. crated 22.50
No. 2.	240 hen eggs; 240 lbs. crated 32.00
No. 3.	390 hen eggs; 275 lbs. crated 38.00



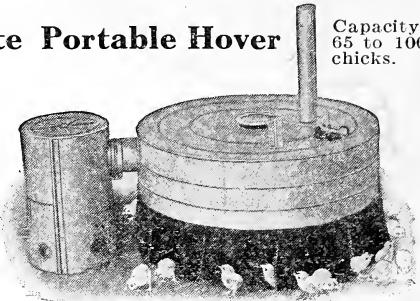
Keystone Sand Tray Incubators

No. 0.	60 hen eggs; 55 lbs. crated	\$ 9.00
No. 1.	100 hen eggs; 80 lbs. crated	12.00

The Prairie State Portable Hover

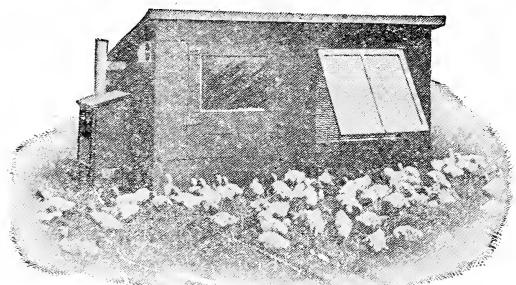
The Prairie State Portable Hover embraces all of the original and successful features that gave the Universal Hover such a high reputation. The Universal Hover has been modified so as to bring the lamp case up to the floor level without sacrificing in any way its safety, economy of oil, or ventilation.

Price \$8.50



Capacity 65 to 100 chicks.

Prairie State Combination Colony Brooders



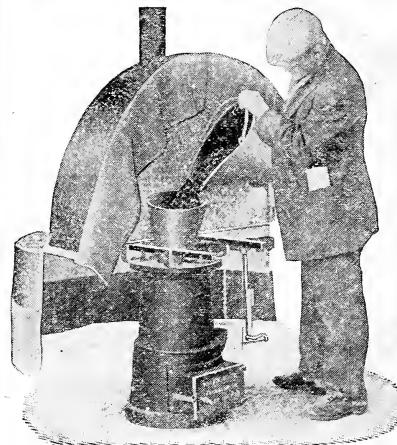
No. 1.	3 feet wide, 6 feet long, two compartments.
	Weight, crated, 300 lbs \$20.00
No. 2.	2 1/2 feet wide, 5 feet long, two compartments.
	Weight, crated, 208 lbs \$16.00

No. 3.	27 inches wide, 48 inches long. Weight,
	crated, 150 lbs \$12.00

Heat regulator attached to any of the above brooders, extra \$1.00

Lack of space prevents us giving detailed information concerning the Prairie State Sand Tray Incubators, Brooders, Universal Hovers, Portable Hovers and Stove Brooders, but will be pleased to send descriptive catalogue of these goods on request.

The Prairie State Stove Brooder



The capacity of the Prairie State Stove is as great as that of any stove upon the market to-day. It will give heat sufficient to brood as many as one thousand to fifteen hundred chicks.

Specifications.

Height over all, 27 in.

Diameter of Canopy, 52 in.

Gross Weight, crated, approximately, 245 lbs. Price, \$30.00.

Prairie State Stove Brooder

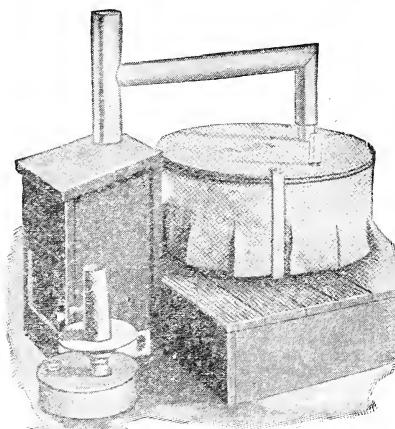
Prairie State Universal Hovers

Universal Hover. With lamp case, smoke conductors, lamp, thermometer, and heat regulator \$8.00

Universal Hover. With lamp case, smoke conductors, lamp and thermometer \$7.00

Universal Hover. With lamp, smoke pipes and thermometer (without lamp case) \$6.00

When used indoors alone, lamp case is not required.

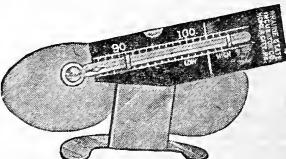


Universal Hover

Prairie State Incubator and Brooder Thermometers

No. 5. Incubator Thermometer Incline, with holder, each post paid, 75¢.

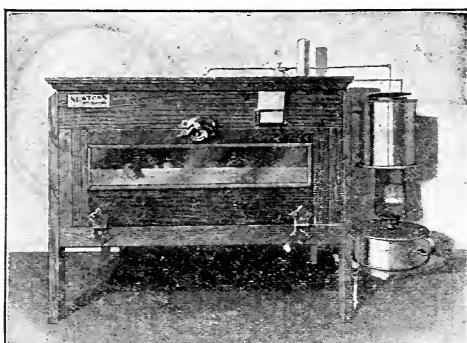
No. 6. Brooder Thermometer for Prairie State Brooders, each post paid, 55¢.



No. 5



No. 6



Newtown "Baby" Giant Incubators With Hot-Water Heating Systems.

All of these machines include Oil-Heater with Regulator. A special Duplex Burner is furnished with the 300 capacity.

All are equipped with Moisture Pans, Automatic Eggs Turner and Automatic Temperature and Moisture Regulators.

The 150 and 300 eggs sizes have Nursery Trays, one in the former and two in the latter, as the 300 capacity is composed of two individual compartments each having its own Regulator and other exclusive Newtown features.

60 eggs size..... \$10.00
150 eggs size..... 22.00
300 eggs size..... 35.00



Newtown Giant Coal Burning Self Regulating Colony Brooders

The Newtown Colony Brooder is a boon to the poultryman who wishes to raise the largest possible number of his chicks, taken direct from the incubator, or from the brooding system to free range after the first few weeks. Its simple construction and several exclusive features insure the least loss and rapid, healthy chick development.

No. 10. Capacity 150 to 200 chicks..... \$18.00
No. 11. Capacity 300 to 500 chicks..... 25.00
No. 12. Capacity 1000 to 1500 chicks..... 35.00

INTERNATIONAL SANITARY HOVERS

The mammoth "Sanitary" is warmer at the curtain than at the center, and at no point is the heat excessive. This Hover is absolutely dependable; its heat at all times is governed by thermostatic control. This safety feature added to its very large capacity makes the International Sanitary Mammoth Hover one of the best hovers for safely caring for large numbers of chicks with the least labor.

**500 to 600
Chick Size,
Price \$25.00**



Sanitary Hovers are as practical for the small back-yard poultry raiser as for the large poultry farms. They are fire-proof and vermin-proof—warmest at the curtain, radiate heat downward on the backs of the chicks, and in this way prevent leg weakness—usable anywhere—ready for business wherever placed. To set them up, you simply set them down. No crowding or smothering of chicks—no kneeling in mud to get at the lamp—no cutting of holes or building of platforms. You want the best brooding device—you will get it in the Sanitary Hovers. 100 chick capacity, price \$8.50 each.

THE CYCLE HATCHERS AND BROODER HATCHERS

The Philo System of Poultry Appliances

Galvanized Iron Brooder, large size, \$2.50 each.
Galvanized Iron Brooder, medium size, \$2.00 each.
Galvanized Iron Brooder, small size, \$1.50 each.
Brooder Coop, complete, \$8.00 each.
Economy Coop, complete, \$10.00 each.
Adjustable Coop, Complete, \$12.00 each.

Send for Free Descriptive Catalogues of
Newtown Brooder, and Incubator,
Sanitary Hovers and Cycle Hatchers.

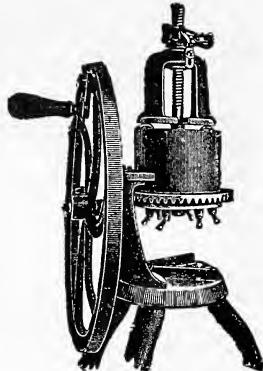
Cycle Hatcher, complete \$6.00



Brooder Hatcher, compl. \$8.00

Mann's Green Bone Cutters

The poultry raiser wants eggs, and wants them when eggs are worth the most. Green Bone and raw meat produce them. The hen will do her part if you give her a chance. The Mann's Bone Cutter gives you a better chance than does any other Bone Cutter.



No. 5-C. For flocks of 25 to 50 hens. Weight, 35 lbs. Price **\$6.00.**

No. 5-B. For flocks of 25 to 50 hens. Weight, 60 lbs. Price **\$8.00.**

No. 5-B, M. For flocks of 25 to 50 hens. Weight, 85 lbs. Price **\$10.40.**

The No. 5-C, No. 5-B, and No. 5-B M, do not have the split hinged cylinder.

No. 7. For flocks of 75 to 150 hens. Weight, 107 lbs. Price..... **\$12.00.**

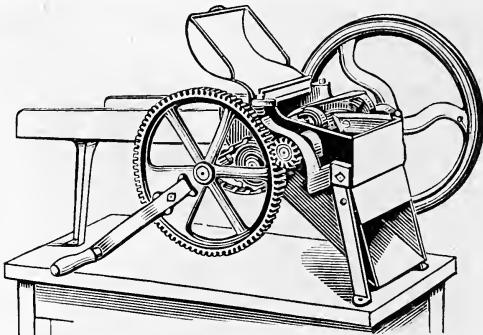
No. 107 1/2. Capacity, 50 to 100 lbs. per hour. Weight, 150 lbs. Price..... **\$16.00.**

No. 9. For flocks of 200 to 300 hens. Weight, 170 lbs. Price..... **\$18.00.**

No. 11. Capacity, 100 lbs. and upwards per hour. Weight, 215 lbs. Price..... **\$26.00.**

No. 12. Capacity, 150 lbs. per hour. Weight, 260 lbs. Price..... **\$30.00.**

Send for Descriptive Catalogue of Bone Cutters.



New Model Clover Cutter.

Removable steel knives, adjustable cutter bar; runs easy; cuts fine; is durable.

The "New Model" Clover Cutter is designed for cutting either green or dry, such growths as clover, alfalfa, vegetable tops, etc., into $\frac{1}{4}$ inch lengths. Weight, 60 lbs. Price..... **\$10.00.**

"Red Chief" Rapid Grinding Feed and Grist Mill

For Grinding Small Dry Grain.

Equipped with extra hardened burrs. Burrs are self sharpening, they cut, do not mash. Grinds Coffee, Chicken Feed and Cracks Peas. Guaranteed to do quicker and better work with less power than any other hand mill on the market.

No. 1. Capacity 1 to 2 bushels per hour. Weight 15 lbs. Fitted with crank. Price..... **\$3.00.**

No. 5. Capacity 1 $\frac{1}{2}$ to 2 bushels per hour. Weight, 25 lbs.; fitted with fly wheel. Price..... **\$4.00.**

Nos. 1 and 5 Mills, clamps or bolts to box as desired. Has hooks on which to hang a bucket.

No. 10. Capacity 2 to 4 bushels per hour. Weight 35 lbs., fitted with fly wheel. Price..... **\$5.00.**

No. 15. Combined Hand and Power Mill. Capacity 6 to 8 bushels per hour. Price..... **\$10.00.**

No. 20. Power Mill, Capacity 10 to 20 bushels per hour. Weight 100 lbs. Price..... **\$15.00.**

Send for Descriptive Catalogue.

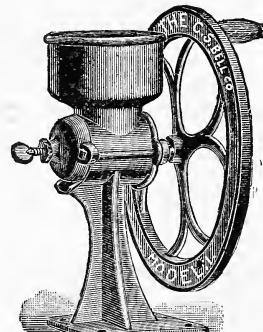
"Red Chief" Hand Corn Sheller

Is guaranteed to do as good, if not better work, than any other Sheller on the market. Price..... **\$2.00.**

Red Chief Mill

The Model Grinding Mill
Grinds all kinds of feed for chickens and other domestic fowls and animals. Adjusted to grind fine or coarse. The burrs are made of Steel-Alloy metal, and are the most durable grinding surfaces made.

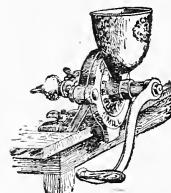
Prices.
No. 2. Capacity $\frac{3}{4}$ to 1 $\frac{1}{2}$ bu. per hour. **\$5.00.**
No. 3. Capacity 1 to 2 bu. per hour. **\$7.50.**
The No. 3 can be furnished with an 8-inch pulley in addition to fly-wheel, if desired. Price, complete, **\$10.00.**



Model Grinding Mill

Black Hawk Grist Mill

With a Black Hawk Grist Mill you can crack the corn or grind any kind of grain to whatever degree of fineness you desire or whichever will best suit the age or condition of your chickens. Weight of Mill, 17 lbs. Price, complete, **\$3.00.** Extra grinders, per pair, **40c.**



Black Hawk Corn Sheller

This Sheller is simple, easily adjusted, and will shell clean all kinds of field corn. Its construction is such that it can not choke. Everything is furnished with the sheller necessary to clamp it to the box or board. Price..... **\$2.00.**



Pony Corn Sheller

This is a good, cheap Corn Sheller, made to meet the demands of the trade where an expensive corn sheller is not required, and where great durability is not necessary.

Price..... **\$1.25.**

Humpty Dumpty Egg Carrier

The Best, Cheapest and Most Convenient Egg Carrier in Existence.

The Original Folding Egg Crate has outclassed everything in its line. Made in four sizes.

Price—6 doz. size, **30c** each, **\$3.00** per doz.; 9 doz. size, **40c** each, **\$3.50** per doz.; 12 doz. size, **45c** each, **\$4.00** per doz.; 30 doz. size, **70c** each, **\$7.00** per doz.

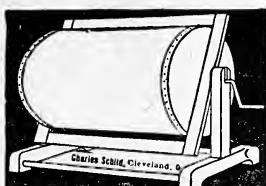
Lightning Lice Killing Machine

The Lice Killing Machine works on the same principle as a thorough dust bath. You put 8 to 10 full grown fowls or 30 to 50 chicks in it at a time and sprinkle only one teaspoonful of Lice Powder over them. The drum of the machine is then revolved slowly 8 or 10 times. No other work is required.

No. 1 Machine, suitable for young chicks or pigeons.....\$2.50

No. 2 Machine, suitable for either young chicks or pigeons, or to clean 8 Leghorns or 4 fowls the size of Plymouth Rocks at a time.....\$3.00

No. 3 Machine, suitable for chickens of the Mediterranean class and birds, such as Turkeys, Cochins and Brahma. This size is not suitable for young chicks or pigeons.....\$4.00



FREE.

With each machine one-half pound of special Lice Powder for use in the machine is given free.



Banner Root Cutter No. 7

It quickly cuts vegetables in long, round, ribbon-like slices, which fowls eat up to the last morsel. It is a valuable addition to the poultry house, and highly recommended by the best poultry experts in the country.

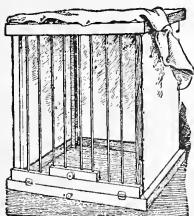
Price, \$5.00.

McCullough Exhibition Coops

Quarter-inch iron rods in front and heavy canvas on ends, back and top; also fitted with a curtain at the top for closing down. Door is large and rises full height of the coop, while in front a small door at the bottom permits cleaning readily. Being put together with screws, can readily be taken apart for storing when not in use.

Single, pair or trio size, \$2.00 each.

Pen size, \$2.50 each.

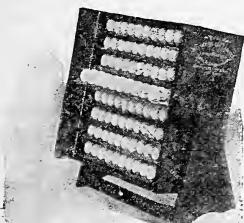


McCullough Exhibition Coop

Wood's Revolving Egg Cabinets

Eggs intended for hatching should be turned daily; the warmer the temperature the more necessary that they be turned. Eggs for market should be turned every two or three days, if kept any length of time. We recommend these cabinets very highly. Prices, 150-egg size, \$3.50; 288-egg size, \$5.50.

Wood's Pony Cabinet. 72-egg size, \$1.00.



Wood's Revolving Egg Cabinets

Eyrie Egg Boxes

Manufactured expressly for carrying hatching eggs.

15 egg size, 20c each, per doz., \$1.80.

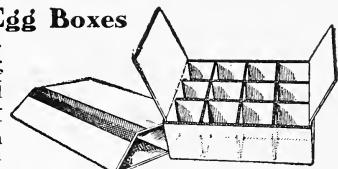
30 egg size, 25c each, per doz., \$2.70.

For express use only.

Parcel-Post Egg Boxes

A convenient, inexpensive, collapsible egg box of great strength and durability. Manufactured in many sizes, holding from one dozen to ten dozen eggs.

Size.	Packed.	Each	Doz.
1 doz. 7 5/8x5 5/8x2 5/8	2 doz. per bdl.	10c.	\$0.65
2 doz. 7 5/8x5 5/8x5 1/4	2 doz. per bdl.	10c.	.80
3 doz. 7 5/8x5 5/8x8	2 doz. per bdl.	15c.	1.20
4 doz. 11 1/2x7 5/8x5 1/4	1 doz. per bdl.	15c.	1.50
5 doz. 9 1/2x7 5/8x8	1 doz. per bdl.	20c.	1.75
6 doz. 11 1/2x7 5/8x8	1 doz. per bdl.	20c.	2.00
10 doz. 15 3/8x9 1/2x8	1 doz. per bdl.	30c.	3.00



Paper Egg Boxes

Just the Thing for Your Family Egg Trade.

Prices.

Egg Boxes, Paper. 1 doz. size, 15c doz.; 75c per 100, \$6.50 per 1000.

Continental Safety Egg Carton

1 doz. size, 15c per doz.; \$1.00 per 100, \$7.50 per 1000.

Lice Expelling Nest Egg

The Lice expelling Nest Egg is the standard combined nest egg and lice killer. The use of this nest egg insures absolute freedom from all kinds of insect pests in the nests. They last a long time and always retain their effectiveness. Prices: 5c each; 50c per dozen.

Porcelain Nest Eggs

These eggs are made of first-class flint glass, and should last a life-time. Prices, 2 for 5c; per doz., 20c; per 100, \$1.50.

Eggs For Hatching

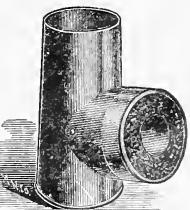
From Thoroughbred Stock.

We can furnish eggs from any standard bred poultry also of ducks, geese or turkeys. We can also furnish Incubator Eggs by the hundred or thousand almost any variety, on short notice. Write for special prices.

X-Ray Egg Tester

Used on any lamp; fits over any burner with a diameter approximating that of the tester.

Price of X-Ray Egg Tester, 25c each, postpaid, 35c each.



Eyrie Shipping Coops

X-Ray Egg Tester

Eyrie Coops weigh less than muslin coops, are very strong and perfectly safe.

Made in five sizes, for single birds, pairs, trios and breeding pens.

No. A, 12x16x18 in., per doz., \$5.00; single coop, 50c. No. B, 12x18x22 in., per doz., 5.70; single coop, 55c. No. C, 12x22x22 in., per doz., 6.10; single coop, 60c. No. D, 20x22x22 in., per doz., 8.40; single coop, 80c. No. E, 20x24x22 in., per doz., 9.10; single coop, 90c.

Sefton's Live Chick Boxes

25 chick size, 20c each, \$1.70 per doz.

50 chick size, 25c each, 2.30 per doz.

100 chick size, 40c each, 3.90 per doz.

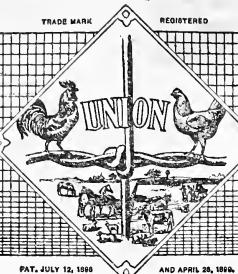
For Express Use Only.

Union Lock Poultry Fencing

As all of the cables are of the same length, and run the whole length of the fabric, every part can be stretched perfectly. Because of its strength and construction this fence requires no top or bottom rail and no more posts than the ordinary woven stock fence or about one-half the number needed in ordinary poultry netting. Union Fence is especially adapted for use where a light attractive and neat

appearing fence is required.

12 in. bale of 10 rods.	\$1.25
18 in. bale of 10 rods.	1.75
24 in. bale of 10 rods.	2.25
36 in. bale of 10 rods.	2.75
48 in. bale of 10 rods.	3.25
60 in. bale of 10 rods.	3.75
72 in. bale of 10 rods.	4.25
48 in. extra heavy wire, bale of 10 rods.	6.75
60 in. extra heavy wire, bale of 10 rods.	8.30
47 in. Hog Fence, bale of 10 rods.	4.50
55 in. Hog Fence, bale of 10 rods.	5.50
Staples, per lb.	.10



PAT. JULY 12, 1898

AND APRIL 26, 1898.

2-in. Mesh. No. 19 wire.

Per bale, 150 ft. long, 3 ft. wide.	\$2.20
Per bale, 150 ft. long, 4 ft. wide.	2.90
Per bale, 150 ft. long, 5 ft. wide.	3.60
Per bale, 150 ft. long, 6 ft. wide.	4.35
Less than full bales, 75¢ per 100 square feet.	

Hexagon Poultry Fencing

We also carry in stock for those desiring a cheaper wire:

2-inch Mesh. No. 19 wire.

Per bale, 150 ft. long, 3 ft. wide.	\$2.20
Per bale, 150 ft. long, 4 ft. wide.	2.90
Per bale, 150 ft. long, 5 ft. wide.	3.60
Per bale, 150 ft. long, 6 ft. wide.	4.35
Less than full bales, 75¢ per 100 square feet.	

Hexagon Poultry Fencing**1-in. Mesh. No. 20 wire.**

Per bale, 150 ft. long, 1 ft. wide.	\$1.65
Per bale, 150 ft. long, 1 1/2 ft. wide.	2.50
Per bale, 150 ft. long, 2 ft. wide.	3.30
Per bale, 150 ft. long, 3 ft. wide.	4.75
Less than full bales, \$1.50 per 100 square feet.	

Wire Nests

Made from heavy japanned steel wire, and will last a life time. Prices 15¢ each; \$1.50 per doz.

The Jersey Pigeon Perch

Made of seasoned maple and coppered steel wire, screws into the woodwork of the loft. Will last a life time.

3 inches in diameter. 7¢ each; by mail, 10¢; 50, \$3.25; 100, \$6.00.

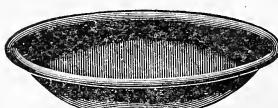
3 1/2 inches in diameter, 8¢ each, by mail, 10¢; 50, \$3.50; 100, \$6.50.



Jersey Perch

Clay Pigeon Nests

8 in., 10¢ each, \$1.00 doz.; 10 in., 15¢ each, \$1.50 doz.

Indurated Fibre Pigeon Nests

Has hole in bottom for screw to hold nest firm and steady. 9 in. diameter, 15¢ each, \$1.25 per doz.

MOE'S NEVER FAIL TRAP NEST

DELICATE TRIGGER HOLDING TRAP RELEASED BY HENS ENTRANCE FALLING SILENTLY



As the name implies, it never fails. Every nest set up and ready for use when shipped. Manufactured in two sizes.

No. 33. 12x12x12 ins., complete, 75¢.

No. 34. For larger fowls, 12x12x14 1/2 inches, complete, \$1.00.



TRIGGER LOCKS TRAP AND HENS AREURE TO STAY UNTIL RELEASED

Leg Bands for Poultry and Pigeons

KNOW YOUR HENS ON SIGHT



Black, White, Blue, Pink,
Amber and Ruby

25¢ a doz., 50¢ for 25, 85¢ for 50, \$1.50 for 100.

The bands are the cheapest on the market. First cost is the only outlay. They will last a lifetime. In ordering be sure to specify your breed.

Black Chick and Pigeon Bands, 20¢ a doz., 35¢ for 25, 60¢ for 50, \$1.00 for 100.

The Smith Double Clinch Leg Bands

Fastens with two clinches passing through the band in such manner as to form a protection to themselves, making it once the best open band on the market. Price, 15¢ per doz.; 25 for 30¢; 50 for 40¢; 100 for 65¢.



Smith Double
Clinch Leg Bands

**Leader Adjustable Leg Bands**

Made of aluminum in 2 sizes, which are adjustable to fit any fowl, large or small. Impossible for them to come off, being held by a double lock.

No. 1 size for Bantams and Leghorns. No. 2 size for all larger breeds and Turkeys. 15¢ per doz.; 25 for 30¢; 50 for 40¢; 100 for 65¢.

**MOE'S SELF LOCKING LEG BAND**

MOE'S SELF LOCKING BAND READY TO BE USED

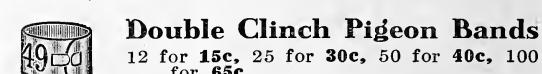


Patented
Every band its own raised number. Manufactured in sizes for Mediterranean, American and Asiatic birds—also turkeys. 12 bands, any size, \$0.15.

**LEG BANDS FOR PIGEONS**

Open Bands. One size only, suitable for any breed and any number desired. Price, per doz., 15¢; 25 for 30¢; 50 for 40¢; 100 for 65¢.

Seamless Bands. 12 for 30¢; 25 for 50¢; 100 for \$1.50.



Double Clinch Pigeon Bands
12 for 15¢, 25 for 30¢, 50 for 40¢, 100 for 65¢.

POULTRY MARKERS

The best way to keep a record of the chickens is by punching the web in the chick's foot soon after hatching.

Reliable Spring-lever Poultry Punch.....25¢

Petty's Poultry Punch.....25¢

Model Lever Toe Marker.....50¢

Incubator and Brooder Lamps, Burners and Wicks

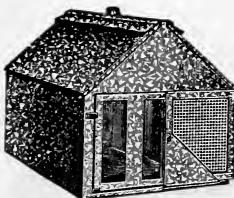
Incubator Lamps. No. 1—For No. 0 Incubator, 60¢.

Incubator Lamps. No. 2—For No. 1 Incubator and all sizes of Colony Brooders and Universal Hover, 65¢.

Incubator Lamps. No. 3—For No. 2 and 3 Incubators, 75¢.

Lamp Burners. Sun Hinge Burner, No. 1, using 1/2 in. wick, 25¢; No. 2, using 1 in. wick, 35¢; No. 3, using 1 1/2 in. wick, 50¢.

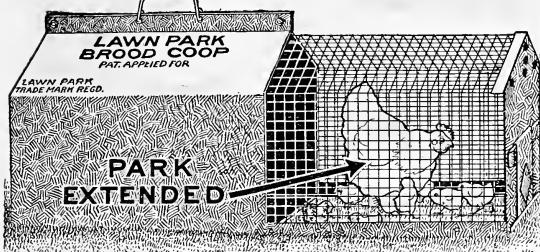
Lamp Wicks. No. 1 and No. 2 wicks, 15¢ doz.; No. 3 wicks, 25¢ doz.



The McCullough Brooder Coop

We offer this as the most successful Coop on the market. Has ventilated top and end, is sanitary and safe. Size about 18 inches high, 18 inches wide and 24 inches long. Price, \$1.50.

Lawn Park Coop

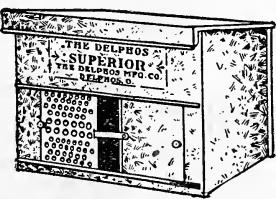


Size, closed, 18x24 inches, with park extended 18x48 inches. Height 24 inches. Price \$2.50.

Superior Brooder Coop

A perfect shelter for hen and young chicks.

Size — 17 $\frac{1}{2}$ x 23 x 19 inches high in front, and 16 inches high in back. Price, \$1.75.



Double Quick Grain Sprouter

The Perpetual Poultry Silo that grows Green Feed while you wait.

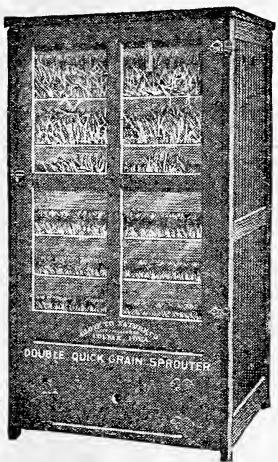
The original grain sprouter, the first commercial sprouter in the United States.

Sprouts in 20 to 30 hours and forces growths of an inch to two a day.

Makes 2 to 6 bushels of green feed from one of dry grain.

Quickly pays for itself in the feed it grows and the eggs it brings.

Many thousands of the Double Quick now in every part of the United States and Canada, and is in use in almost every civilized country in the world.



PRICES, CAPACITY, WEIGHT, SIZE.

No. 1.	1/4 bu.	2 trays,	25 to 37 hens,	\$ 5.75
No. 2.	1/2 bu.	4 trays,	50 to 75 hens,	7.00
No. 3.	1 bu.	5 trays,	100 to 150 hens,	9.75
No. 4.	2 bu.	6 trays,	200 to 300 hens,	12.75
No. 5.	4 bu.	12 trays,	400 to 600 hens,	17.75
No. 6.	8 bu.	16 trays,	800 to 1,200 hens,	29.00

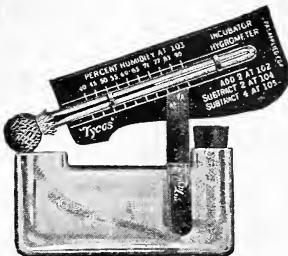
NOTE 1:—Capacities are given in dry grain.

NOTE 2:—Furnished with lamp, thermometer, directions, etc.

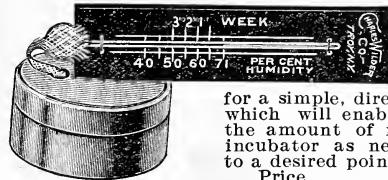
NOTE 3:—Largest sizes will pass through ordinary doors.

Tycos Incubator Hygrometer

For determining the relative humidity in the egg chamber of any and all incubators. A practical and satisfactory device for this purpose. Direct readings are obtained instantly without the use of tables or calculations. Price, \$1.50.



Wilder Moisture Gage



This instrument is designed to meet the demand of the practical poultryman for a simple, direct reading gage which will enable him to keep the amount of moisture in his incubator as near as possible to a desired point.

Price \$1.25

Poultry Killing Knife

Every poultry raiser who kills and dresses for market, should own one of these Knives. This knife penetrates the brain in such a manner that the feathers loosen and come off easy.

Price 50c.

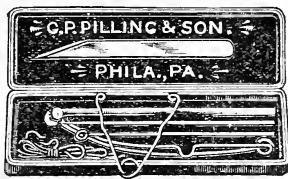
Gape Worm Extractor



This instrument is especially constructed for the purpose, and is the best Gape Worm Extractor manufactured. Postpaid 25c

Pilling Caponizing Instruments

The demand for capons is always good and is steadily growing. Any one purchasing a set of these caponizing instruments will find he is making no mistake. Price, complete with full instructions, in velvet-lined case, \$2.75. We will send with each set of caponizing instruments a booklet, entitled, "Complete Guide for Caponizing" fully illustrated.



Roofing Papers

Rex Flintkote Roofing. $\frac{1}{2}$ ply, \$2.00; 1 ply, \$2.25; 2 ply, \$3.25; 3 ply, \$4.25; all per square of 108 ft.

Ibex Waterproof Insulating, Building and Sheathing Paper. 1 ply, \$2.50; 2 ply, \$4.00; all per roll of 1,000 square feet.

Red Rosin Sheathing Paper. No. 1, 60c; No. 2, 75c; No. 3, \$1.00; all per roll.

Tarred Felt Roofing. 2 ply, 80c; 3 ply, \$1.00; all per roll.

Tin Roofing Caps. 10c per lb.

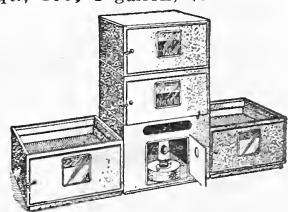
Roofing Nails. 8c per lb.

Rex Roof Paint. Per gallon, 75c; 5 to 10 gallon lots, 60c per gallon.

Flintkote Plastic. 1 qt., 40c; 1 gallon, \$1.25.

Moe's Sectional Oat Sprouter

A reliable double walled sprouter adapted to any size flock. As the birds increase in number, add another section. Manufactured of heavy galvanized iron. No wood to warp or fall apart.



No. 59. Base with lamp and two trays..... \$7.00

No. 60. Additional sections with two trays... 3.50

FEEDING DEVICES FOR POULTRY

The "6 in 1"
Exerciser and
Feeder

The ordinary exerciser and feeder has one compartment containing mixed grains. The "6 in 1" has this central compartment, and in addition has 5 others—for dry mash, meat, oyster shell, grit, and charcoal.

The top of the "6 in 1" is conical in shape. The fowls positively cannot roost upon it.

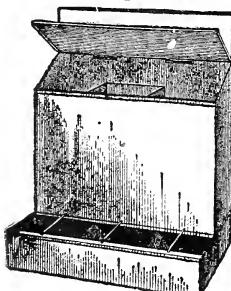
Price, 40 quart... \$4.75
Price, 20 quart... 3.75

20th
Century
Poultry
Feeder
and
Exerciser

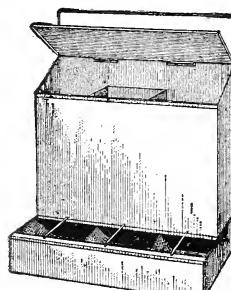
Will feed your flocks and do it better than the old way; and the beauty of it all is they never over feed. The hen can get little by little as her system requires. The crops are not gorged at any time and the birds are always alert, strong, healthy and vigorous, from the fact that the food is thoroughly assimilated.

No. 1. 8 qts... \$2.25
No. 2. 12 qts... 2.75
No. 3. 18 qts... 3.25

No. 4. 24 qts... \$3.75
No. 5. 32 qts... 4.25



Poultry Feeder, 1-2-3



1-2-3 Shell Grit and Charcoal Feeder

Poultry Feeder,
1-2-3

For Dry Mash, Scraps, Shells, Grit, Charcoal or any poultry feed. When used for one kind of feed only, take out separator; for two kinds put separator in one end; when used for three kinds, say scraps, shells and grit, put separator in the middle and you have three separate feeders. 75c each; \$8.00 doz.

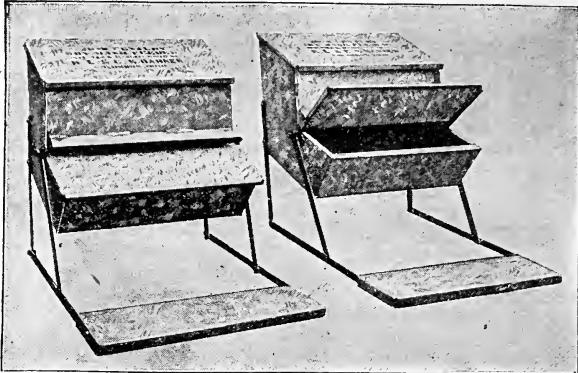


Atsatt's Feeders

Equally good for water or food. Comfort for the poultry, is very little trouble. No expense and no danger. Chick size, 25c, each \$2.50 doz. Poultry size, 50c, each \$5.00 doz.

1-2-3 Shell Grit
and Charcoal
Feeder

Will serve for one, two or three kinds of feed by using the separator. 50c each, \$5.00 per doz.



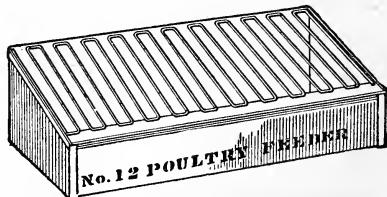
The 20th Century Dry Mash Feeder

Designed for feeding all kinds of dry ground feed, such as bran, chop middlings, corn meal and beef scraps, either single or mixed. This is the only hopper that will successfully open when the hen desires food and close when she is through eating.

No. 1, $\frac{1}{2}$ bushel, \$1.50; No. 2, 1 bushel, \$2.00.

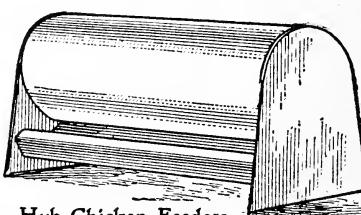
Felker's Wall Feeders

Practical dry
mash feeders,
designed to hang
on the wall.



No. 12 Feeder, 12 in. long, 35c each; \$3.50 doz.
No. 24 Feeder, 24 in. long, 50c each; \$5.00 doz.

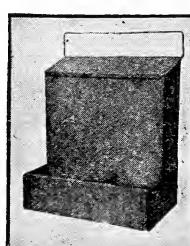
Hub Chicken Feeders



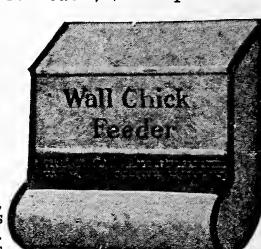
Hub Chicken Feeders

Keeps the feed clean and dry. Chickens can not get into it, and can not waste the feed. 9 in. Feeder, 35c each; \$3.50 doz.

15 in. Feeder, 50c each; \$5.00 doz.

Straight-Front
Dry-Food Hopper

Perfectly straight front, which causes the contents to feed readily. Lip in front. Wire bars to keep the fowls from wasting food. 70c each, \$7.00 per doz.

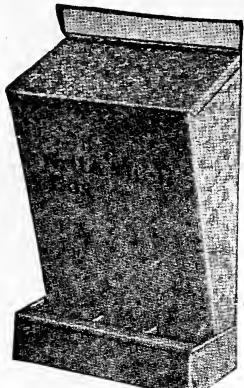


Wall Chick Feeder

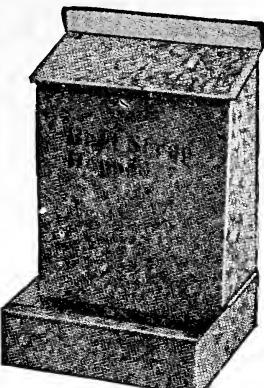
Wall Chick Feeder

Wire screen keeps chicks from wasting the food. Sloping top prevents roosting. 10 in. 50c each; \$5.00 per doz. 20 in. 75c each; \$7.50 per doz.

FEEDING DEVICES FOR POULTRY—Continued



Prairie State Grit and Shell Box. Made of heavy galvanized iron, with 3 compartments. 50c each, \$5.00 doz.



Prairie State Beef Scrap and Dry Food Hopper. Capacity, 10 pounds scrap. 50c each, \$5.00 doz.

RAIRIE STATE DRY MASH HOPPER

18 inches high, 12 inches wide, and has a capacity of 25 pounds of dry mash.

\$1.50 each, \$15.00 doz.



Round Bottom Dry Food Hopper

Dry mash and beef scrap feed readily and never clog.

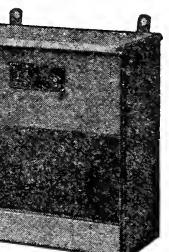
75c each, \$7.50 doz.

Round Bottom

RECTANGULAR GRIT AND SHELL BOX.

Liked by many because dust and straw cannot easily get into the trough.

40c each, \$4.00 per doz.



Prairie State Hopper

Rectangular

ROUND BOTTOM GRIT AND SHELL BOX.

One of the most satisfactory grit and shell boxes ever placed on the market. 50c each, \$5.00 per doz.

Round Bottom

MOE'S ROUND FEED SAVING HOPPER

Patent Pending.

Made round so that it will accommodate more birds at one time.



No. 7. Moe's Round Hopper, 1 bu. capacity... \$1.50
No. 8. Moe's Round Hopper, 1/2 bu. capacity... 1.00



Can be hung upon the wall of the house at any height desired. Price 25c each, \$2.50 doz.

MOE'S GRIT AND SHELL BOXES



No. 9. Moe's Grit Box, capacity about 1/2 bu., 50c

No. 90. Four compartments 75c.

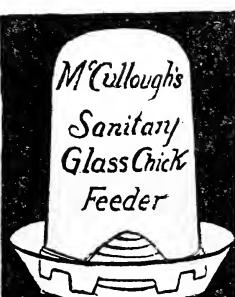


FAVORITE DRY MASH HOPPER.

The wire grid is raised or lowered as required for coarse or fine mash. The flange at the edge prevents any possibility of waste and the small wires extending from the flange to the wire grid prevents the birds from throwing the feed sideways out of the hopper.



12 in., 12 qt.; price \$1.00 each, \$10.00 doz.
 18 in., 18 qt.; price \$1.25 each, \$12.50 doz.
 24 in., 24 qt.; price 1.50 each, \$15.00 doz.



McCullough's Sanitary Glass Chick Feeder

Best Feeder made for Chicks.

15c each, 6 for 90c

\$1.75 per dozen.



Chick Servers

These chick servers give out pure food and water at all times until the supply is consumed. 25c each, \$2.50 per doz.

MOE'S NEVER CLOG AND WASTE PROOF HOPPER



Patent Pending.

This hopper does away with all trouble of feed clogging, no matter how coarse. Manufactured in 3 sizes:



No. 35. 12 quart capacity..... \$0.75
No. 36. 18 quart capacity..... 1.00
No. 37. 36 quart capacity..... 1.50

DRINKING FOUNTAINS FOR POULTRY AND PIGEONS

McCullough's
Sanitary Glass
Chick Fountain

Best Fountain made for
Chicks.

15c each, 6 for 90c,
\$1.75 per dozen.

McCullough's
Wall Fountain

These fountains are equally serviceable for young chicks or adult fowls, and especially useful.

Brooder size, 25c each, \$2.50 doz.

1 gallon, 50c each, \$5.00 doz.

2 gallons, 75c each; \$7.50 doz.

Peerless Drinking
Fountain

Easy to clean and fill and fowl can not injure their combs when drinking. Simple in construction, durable and practical.

Brooder size, 35c each; \$3.50 doz.

5 qt. size, 60c each; \$6.00 doz.

10 qt. size, 85c each; \$8.50 doz.



Peerless Heater

The water will never freeze or become too warm. Easy to care for. Costs but little to run. The lamp holds one pint kerosene. Will last one week (daytime). An air space between oil well and heat chamber makes it impossible for gas to form. Price \$1.00

Peerless Combination. 5 qt. Fountain and Heater complete \$1.50

Peerless Combination. 10 qt. Fountain and Heater complete \$2.00.

Sanitary Stoneware
Fountain

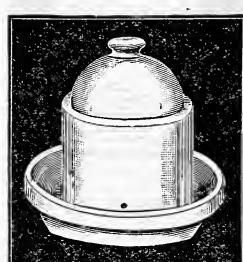
The top is removable allowing the fount to be thoroughly cleaned inside. The proper thing to use where medicine is given in the drinking water.

1 qt., 20c each; \$2.00 doz.

2 qt., 25c each; 2.50 doz.

4 qt., 35c each; 3.50 doz.

8 qt., 45c each; 4.50 doz.



Sanitary Stoneware
Fountain

Food or Water Cups

Made of iron, strong and durable. Hold $\frac{1}{2}$ pint each; enough for all ordinary purposes.

Price, each, 15c; per doz., \$1.50.



W. R. Poultry Fountain

This fountain is made in one piece, strongly built; largely used for Pigeons.

Prices— $\frac{1}{2}$ gal. 25c, 1 gal. 35c, 2 gals. 50c.

MOE'S SANITARY POULTRY DRINKING FOUNTAIN

Patented
Dead air space
between cover and
reservoir keeps
water cool in summer
and from freezing
in winter. Sanitary
and humane. Manufactured in 3 sizes.

REPLACE COVER AND
HAVE A CONTINUOUS SUPPLY
OF PURE WATER



No. 1. One gallon capacity \$1.25
No. 2. Two gallon capacity 1.75
No. 4. Four gallon capacity 2.25

McCullough's Galvanized Drinking
Fountains

Cone Top

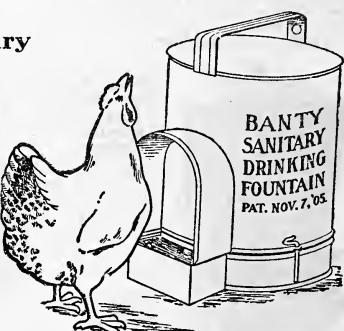


These fountains are light, non-breakable, and easily cleaned.

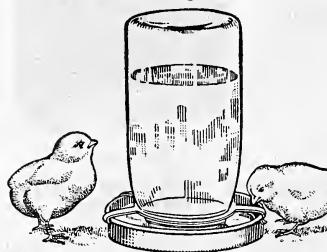
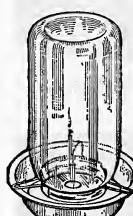
1 qt., 20c each, \$2.00 doz.; 2 qt., 25c each, \$2.50 doz.; 4 qt., 35c each, \$3.50 doz.; 8 qt., 50c each, \$5.00 doz.

Banty Sanitary
Drinking
Fountains

Can not be fouled by wading or roosting; made of galvanized iron; is extremely simple and can not get out of order. $\frac{1}{2}$ gal. 50c; 1 gal. 75c.

The Noslop Chick Foun-
tain and Feeder

To be used with any size mason jar. When used for water, fill the jar, snap on cap and adjust the bottom. In inverting no water will be spilled. For feed it should be used without the cap. Price, 15c each, \$1.50 per doz.



Patent Applied For

N. W. Auto-
matic Feeder
and Fountain

Made to fit any half gallon, quart or pint Mason jar. We do not furnish jars.

Two Sizes:
No. 5. Having 5
in. pan, 10c each,
3 for 25c.

No. 6. Having 6
in. pan, 15c each,
2 for 25c.

MOE'S STAR JAR FOUNTAIN AND FEEDER

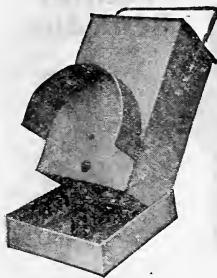


Patent Pending

No parts to come unsoldered. Leaking impossible. Will fit pint, quart or half-gallon Mason jar. Convenient, cheap and sanitary. One size only. 10c each, \$1.00 doz.



DRINKING FOUNTAINS FOR POULTRY AND PIGEONS—Continued

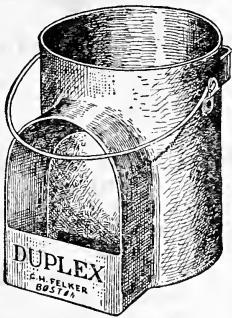


Drop Bottom Fount

The Duplex Fountain

Top section slides into bottom section.

The latest sanitary fountain on the market. This is a double fount, keeps the water clean and pure. Easy to fill. Easy to care for. Made in two sizes, 4 and 8 quarts. 4 qt. size, 60c each, \$6.00 doz.; 8 qt. size, 80c each, \$8.00 doz.



Have a Conkey Corner In Your Poultry House

There is nothing like being ready with a good Remedy when disease develops in your flock,

Conkey's Remedies and Tonics

are good, and if you have them at your elbow you can laugh at disease. We guarantee Conkey Goods to satisfy you or we will refund your money. Ask for Conkey's Poultry Book.



Conkey's Starting Food for Chicks. 3 lb. pkg., 25c; 6 1/2 lb. pkg., 50c; 14 lb. bag, \$1.00; 25 lb. bag, \$1.65; 50 lb. bag, \$3.00; 100 lb. bag, \$5.75.

Conkey's Roup Remedy. 25c, 50c and \$1.00 per pkg.

Conkey's Roup Pills. 25c, 50c and \$1.00 per pkg.

Conkey's Canker Special. 50c per pkg.

Conkey's Bronchitis Remedy. 50c per pkg.

Conkey's Cholera Remedy. 25c and 50c per pkg.

Conkey's Chicken Pox Remedy. 50c per pkg.

Conkey's Limber Neck Remedy. 50c per pkg.

Conkey's Scaly Leg Remedy. 25c per pkg.

Conkey's Gape Remedy. 50c per pkg.

Conkey's White Diarrhoea Remedy. 50c per pkg.

Conkey's Poultry Tonic. 25c per pkg.

Conkey's Blackhead Remedy. 50c per pkg.

Conkey's Rheumatic Remedy. 50c per pkg.

Conkey's Poultry Worm Remedy. 50c per pkg.

Conkey's Poultry Laxative. 25c per pkg.

Conkey's Healing Salve. 25c per pkg.

Conkey's Head Lice Ointment. 1 oz. tube, 10c; 3 oz. tube, 25c.

Conkey's Lice Powder. 5 oz. pkg., 10c; 15 oz. pkg., 25c; 48 oz. pkg., 50c; 100 oz. package, \$1.00.

Conkey's Lice Fix. 50c per pkg.

Conkey's Lice Liquid. 1 qt., 35c; 2 qts., 60c; 1 gallon, \$1.00.

Conkey's Laying Tonic. 1 1/2 lb. pkg., 25c; 3 1/4 lb. pkg., 50c; 7 lb. pkg., \$1.00; 25 lb. pail, \$3.00

Conkey's Poultry Conditioner. 25c and 50c per pkg.

Conkey's Noxicide. small size, 35c; 1 qt., 60c; 90c 1/2 gallon, \$1.50 1 gallon.

Conkey's Sulphur Fumigating Candles. 10c each, 3 for 25c 1 doz., \$1.00

Conkey's Fly Knockers. per qt., 35c; 1/2 gallon, 60c; per gallon, \$1.00; 5 gal. can (Jacketed), \$4.00.

Drop-Bottom Founts

28-gauge galvanized steel. Easiest thing in the world to open and clean. Clasp by which the bottom is fastened fits over the small hole under the hood, preventing slopping of water when the fount is handled. Solid brass hinge rod—no rust. 2 qt., 45c each, \$4.50 doz.; 1 gal., 60c each, \$6.00 doz.; 2 gals., 80c each, \$8.00 doz.



Pratt's Baby Chick Food

3 lb. pkg., 25c; 6 1/2 lb. pkg., 50c; 14 lb. bag., \$1.00; 25 lb. bag, \$1.50; 50 lb. bag, \$3.00; 100 lb. bag, \$5.75.

Pratt's Poultry and Stock Remedies

Pratt's Poultry Regulator. 26 oz. pkg., 25c; 4 lb. pkg., 50c; 12 lb. pkg., \$1.25; 25 lb. pails, \$2.50; 100 lb. bag, \$9.00.

Pratt's Roup Cure. 25c, 50c and \$1.00.

Pratt's Roup Pills. 25c, 50c and \$1.00.

Pratt's Sore Head Chicken Pox Remedy. 25c pkg.

Pratt's Condition Tablets. 25c and 50c pkg.

Pratt's Bronchitis Remedy. 25c and 50c pkg.

Pratt's Scaly Leg Remedy. 25c and 50c boxes.

Pratt's Head Lice Ointment. 10c and 25c pkg.

Pratt's Gape Remedy. 25c and 50c pkg.

Pratt's White Diarrhoea Remedy. 25c and 50c pkg.

Pratt's Lice Killer (powdered form). Trial size, 10c; 1 lb. pkg., 25c; 2 1/2 lb. pkg., 50c.

Pratt's Liquid Lice Killer. 1 qt. can, 35c; 2 qt. can, 60c; 1 gal. can, \$1.00.

Pratt's Poultry Disinfectant. 1 qt. can, 35c; 2 qt. can, 60c; 1 gal. can, \$1.00.

Pratt's Cholera Remedy. 25c and 50c pkg.

Pratt's Animal Regulator. 24 oz. pkg., 25c; 50 oz. pkg., 50c. Can also furnish 25 lb., 50 lb., and 100 lb. bags. Prices on application.

Pratt's Conditioner. 7 lb. pkg., 50c; 12 lb. bag, 75c. Can also furnish in 25 lb., 50 lb. and 100 lb. bags. Prices on application.

Pratt's Condition Powder. 25c and 50c pkg.

Pratt's Heave, Cough & Cold Cure. 1 lb. pkg., 50c.

Pratt's Veterinary Colic Cure. 50c and \$1.00 per bottle.

Pratt's Spavin Paste. 50c per box.

Pratt's Liquid Spavin Remedy. 50c and \$1.00 per bottle.

Pratt's Distemper and Pink Eye Cure. 50c per bottle.

Pratt's Dip and Disinfectant. 1 qt. can, 35c; 2 qt. can, 60c; 1 gal. can, \$1.00.

Can also furnish in 5 and 10 gal. cans, also in 30 and 50 gal. barrels. Prices on application.

Pratt's Liniment. 25c, 50c and \$1.00 bottles.

Pratt's Bag Ointment. 25c and 50c boxes.

Pratt's Peerless Hoof Ointment. 25c and 50c boxes.

Pratt's Condition Powder. 25c, 50c and \$1.00 per pkg.

Pratt's Healing Ointment (for man or beast). 25c and 50c boxes.

Pratt's Healing Powder. 4 oz. sifting top can, 25c.

Pratt's Worm Powder. 50c per box.

Pratt's Cow Tonic. Per pkg., 50c; \$2.00 for 12 lbs., and \$3.50 for 25 lbs. in pails.

Pratt's Calf Tonic. Per pkg., 50c; 12 lb. pails, \$2.00.

Pratt's Hog Cholera Specific. Per pkg., 50c; 12 lb. pails, \$2.00; 25 lb. pails, \$3.50.

Pratt's Germ-a-thol. 25c, 50c and \$1.00 per bottle. Can also furnish in 1, 5 and 10 gallon cans and 50 gallon barrels. Prices on application.



Guarantee—To See It Kill

Spread a newspaper on the floor or ground, and hold the fowl to be treated over it while dusting. Five minutes after you have completed the application, if you think there are not as many dead lice on the paper as there were live ones on the fowl, send us the empty package, state the facts, and we will return you the purchase price. 15 oz. pkg. 25c.

THEY FIGHT FOR SPRATT'S



Spratt's Foods For Dogs, Puppies And Cats

Spratt's Patent Dog Cakes. Per lb. **10c**, 3 lbs. **25c**, 10 lbs. **75c**, 50 lbs. **\$3.50**, 100 lbs. **\$6.50**.

Spratt's Patent Puppy Cakes. Per lb. **10c**, 3 lbs. **25c**, 10 lbs. **75c**, 50 lbs. **\$3.50**, 100 lbs. **\$7.00**.

We offer the following Dog Foods in cartons.

Larger quantities, prices on application.

Spratt's Cod Liver Oil Dog Biscuits. **25c** each.

Spratt's Meat Fibrine "Terrier" Cakes. **25c** each.

Spratt's "Pet Dog" Biscuits. Cartons, **25c** each.

Spratt's "Toy Pet" Biscuits. Cartons, **25c** each.

Spratt's Malt and Cod Liver Oil Biscuits. **25c** each.

Spratt's Charcoal Dog Cakes. Cartons, **25c** each.

Spratt's Plain Puppy Meal. Cartons, **10c** each.

Spratt's Pepsinated Puppy Meal. Tins, **25c** each.

Spratt's Cat Food. Cartons, **25c** each.

Spratt's Malted Kitten Food. Tins, **25c** each.

Spratt's Dog Remedies

Spratt's Alterative Cooling Tablets. **50c** postpaid.

Spratt's Anti-Rickets Tablets. **50c** postpaid.

Spratt's Anti-Vomit Tablets. **50c** postpaid.

Spratt's Chorea Tablets. **50c** postpaid.

Spratt's Digestive Tablets. **50c** postpaid.

Spratt's Diarrhoea Tablets. **50c** postpaid.

Spratt's Distemper Tablets. **75c** postpaid.

Spratt's Eczema and Sarcoptic Mange Remedy. **50c** postpaid.

Spratt's Kidney Tablets. **50c** postpaid.

Spratt's Liniment. **50c** postpaid.

Spratt's Liver Tablets. **50c** postpaid.

Spratt's Mange Remedy. **50c** postpaid.

Spratt's Purgative Tablets. **50c** postpaid.

Spratt's Rheumatism Tablets. **50c** postpaid.

Spratt's Worm Capsules. **50c** postpaid.

Spratt's Worm Capsules for Puppies. **50c** postpaid.

Spratt's Tonic, and Condition Tablets for Toy Dogs and Puppies. **50c** postpaid.

Spratt's Distemper Tablets for Toy Dogs and Puppies. **50c** postpaid.

Spratt's Vermifuge Capsules for Toy Dogs and Puppies. **50c** postpaid.

Spratt's Dog Soap (white). **25c** per tablet, postpaid.

Valuable book, giving complete descriptions of all the above Remedies, and other information, mailed free.

Lambert's Death To Lice Remedies

Death to Lice Powder. 5 oz. size, **10c**; 15 oz. size, **25c**; 48 oz. size, **50c**; 100 oz. size, **\$1.00**.

Death to Lice Ointment. **10c** and **25c**.

Lee's Remedies

Lee's Germozone. Bottles, **50c** each; tablets, **50c** per box.

Lee's Insect Powder. **1 1/4 lb.** box, **25c**.

Lee's Liquid Lice Killer. 1 qt. can, **35c**; **1/2 gal.** can, **60c**; 1 gal. can, **\$1.00**.

Lee's Egg Maker. **2 1/2 lb.** pkg., **25c**; **25 lb.** pail, **\$2.50**.

Miscellaneous Supplies

McCullough's Roup Cure. Small size pkg., **50c**; large size pkg., **\$1.00**.

Cypher's Lice Paint. 1 qt. can, **30c**; **1/2 gal.** can, **50c**; 1 gal. can, **75c**.

Essex Model Nutrine Chick Salts. **2 lb.** pkg., **50c**; **5 lb.** pkg., **\$1.00**.



Rust's Poultry Remedies



Rust's Egg Producer

1 lb. box	\$0.25
2 1/2 lb. box	.50
6 lb. box	1.00
10 lb. box	1.50
25 lb. box	3.50

Rust's Havens Roup Pills

Box of 50 pills, **.25**. Box of 112 pills, **.50**. Box of 250 pills, **1.00**.

Soluble Roup Powder

4 oz. size, **.25**. 9 oz. size, **.50**. 20 oz. size, **\$1.00**.

Rust's Havens Climax Powder

13 oz. box, **.25**. 5 lb. box, **\$1.00**. 32 oz. box, **.50**. 8 lb. box, **1.50**.

Lice Killing Powder

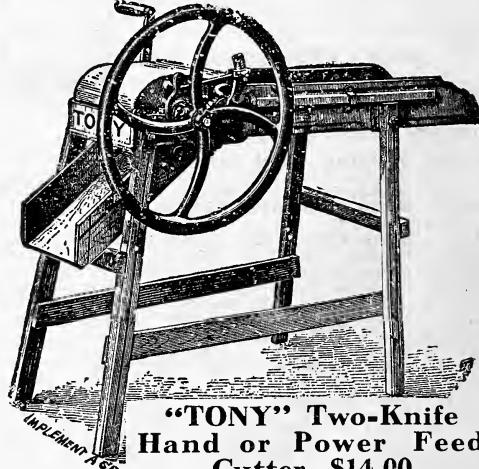
5 oz. box, **10c**; 16 oz. box, **25c**; 48 oz. box, **50c**; 112 oz. box, **\$1.00**.

Liquid Lice Killer

Quart can, **35c**; half gallon can, **60c**. One gallon can, **\$1.00**; 5 gallon can, **\$4.00**.

Quick Healing Powder

3/4 oz. size, **25c**.



"TONY" Two-Knife Hand or Power Feed Cutter, \$14.00

These Cutters will cut in lengths varying from $\frac{1}{4}$ inch to $1\frac{1}{2}$ inch. The cutting capacity of the "Tony" Cutter is from 75 to 100 bushels cut hay per hour.

The knives are the best made, being manufactured especially for us of selected oil-tempered steel. The knives are an all important feature of a Cutter. We know this, and consequently specify the very best.

SPECIAL NOTICE

Lack of space and market fluctuations prevent us quoting firm prices on **Feeds**, but be sure to consult our **Special Price List** enclosed in this Catalogue for present values on a full line of **High Grade Feeds and Supplies**.

As season advances send us an estimate of your wants for our special firm prices.

Bird Houses

These houses are constructed of a tinted stucco, which is indestructible and will last a lifetime. Instructions for placing on each hut

The birds which nest and harbor in cavities and hollows are in most instances, the most valuable of our native birds, which love the vicinity of man seemingly not only to delight him with chirp and song, but are the most diligent to keep plant life free from parasites and devouring insects.

Among our American species we may mention: The Wren, the Chickadee, the Nuthatch, the Titmouse, the Fly-catcher, the Pronotory Warbler, the Flicker, the Woodpeckers, and the Bluebird, the emblem of happiness.

Our model hutlets and cabins which we provide for these charming entertainers are appreciated by all bird lovers.



Titmouse Hut

PRICE LIST HUTS AND CABINS.	
Wren Hutlet, each	\$1.25
Chickadee Hutlet, each	1.25
Bluebird Hut, each	1.50
Titmouse, each	1.50
Bark Hut, each	2.00
Woodpecker and Flicker Hut, each	1.50
Martin Houses, each	\$5.00 to \$50.00
Feederies, each	15.00 to 35.00
Carved and Hewn Hut, each	5.00 to 25.00
Squirrel Cabins, each	4.00 to 10.00

McCullough's Wild Bird Seed

This is a mixture that will supply food for the wild birds indigenous to this part of the country.
3 lbs., 15c; 6 lbs., 25c; 13 lbs., 50c; 25 lbs., 90c; 50 lbs., \$1.65; 100 lbs., \$3.00.

Winter and Summer—you'll find a happy family of wild birds around you—Provided you feed them. It's got a metal back, curved to fit a tree trunk or post, that protects the tree from injury.

It's easy to lift the basket portion up a notch and unhook it—leaving the metal back hanging on the hooks.

The stuffing of the basket portion is the work of an instant. **Suet or beef trimmings is the best packing.** In Spring you can fill a part with hair, twine, feathers and cotton (nesting materials). Place the basket on the shady side in summer, and the sunny side in winter. Weight 2 lbs. Price 75c each. Postage extra.

Gold Fish and Fish Globes

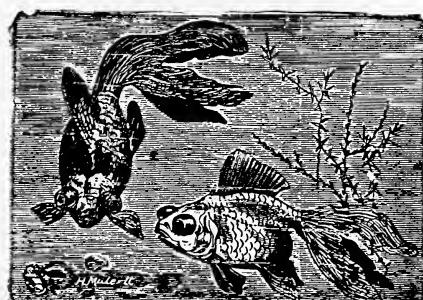
We are now carrying in stock the following varieties of Gold Fish, all selected with greatest care to secure best qualities only, so that purchasers may rely on receiving best values for prices charged.

Telescope Fish. \$1.00 to \$3.00 each.
Japanese Fringe Tails. Two and three years old. \$2.50 to \$5.00 each.

Japanese Fantails. 50c to \$1.50 each.
Paradise Fish. (Breeders), \$3.00 per pair.
Gorgeous Tails. 50c, 75c and \$1.00 each.
Comets. 25c, 50c and 75c each.
American Fantails. 25c and 50c each.
Pearl Fish. 25c and 50c each.

Extra Colored and Size Common Fish. Two for 25c, \$1.25 per doz.

Small Gold Fish. Assorted colors, three for 25c, 90c per doz.
Gold Fish Shipped by express at Purchaser's risk only.



Hanging Fish Globes

Size		Each	Doz.
6 $\frac{1}{2}$ -in.—	$\frac{1}{2}$ -gallon actual capacity	.30	\$3.25
7 $\frac{1}{2}$ -in.—	$\frac{3}{4}$ " " " .35 4.00		
8 $\frac{1}{2}$ -in.—	1 " " " .45 5.00		
9 $\frac{1}{2}$ -in.—	1 $\frac{1}{2}$ " " " .60 6.50		
10 $\frac{1}{2}$ -in.—	2 " " " .70 7.50		
12 -in.—	3 " " " 1.00 10.00		

Chains for Gold Fish Globes, 10c each.

Footed Fish Globes—Pressed Foot

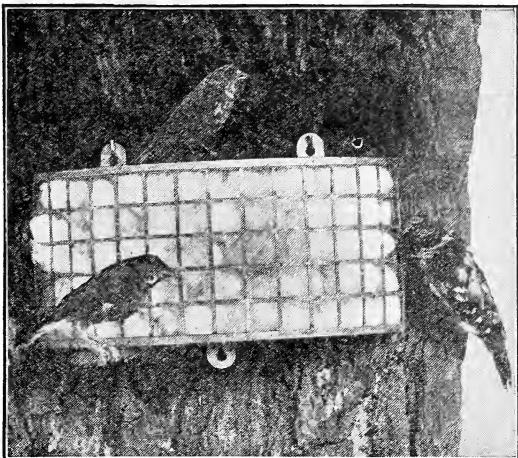
Size		Each	Doz.
1-gallon actual capacity		\$1.00	\$11.00
2-gallon		1.50	17.00

Aquarium Moss. 10c per bunch, by mail 12c. **Fish Food.** 5c per box, by mail 7c.
McCullough's Natural Fish Food. 10c per pkt., \$1.00 per doz.

We are prepared to furnish AQUARIUMS ranging in capacity from 3 gallons to 95 gallons each, at prices from \$2.70 to \$100.00 each.

Write for our special price list of Aquarium Supplies.

Suet Baskets For Wild Birds



Suet Basket

Winter and Summer—you'll find a happy family of wild birds around you—Provided you feed them. It's got a metal back, curved to fit a tree trunk or post, that protects the tree from injury.

It's easy to lift the basket portion up a notch and unhook it—leaving the metal back hanging on the hooks.

The stuffing of the basket portion is the work of an instant. **Suet or beef trimmings is the best packing.** In Spring you can fill a part with hair, twine, feathers and cotton (nesting materials). Place the basket on the shady side in summer, and the sunny side in winter. Weight 2 lbs. Price 75c each. Postage extra.



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We Deliver Free, VEGETABLE and FLOWER SEEDS, by the packet, ounce, $\frac{1}{4}$ pound and pound.

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Quantity

Name of Article Wanted

Price



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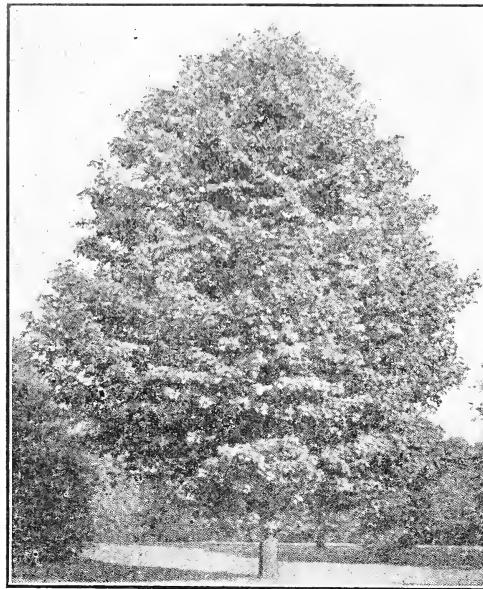
CINCINNATI, OHIO.

PHONE MAIN 4598

SPECIAL NOTICE.

We are in position to safeguard your interests intelligently because of the fact that we are the only firm in this city engaged in handling Nursery Stock which maintains its own Nursery and constantly employs expert labor to maintain a high efficiency of service.

At our Nursery we have a large stock of Imported Boxwood Trees, Evergreens and other Ornamental trees and Shrubs which we grow carefully and do not offer for sale until fully acclimated. Consequently, having reduced all chances of failure to a minimum, our stocks, Quality considered, are always the cheapest on the market.



Sugar Maple.

FOR LAWN, STREET AND FOREST PLANTING.

We enumerate below the principal varieties of Shade and Ornamental Trees, etc., all STRICTLY SELECTED STOCKS and while our aim is to supply FIRST QUALITY only, still, on account of our ample stock, we are in position to meet honorable competition on any size or quality; therefore it will be to your advantage to submit an estimate of your wants.

	Each	Per Doz.	
ALNUS, (Alder), European	6 to 8 feet	\$1.25 \$12.50	
Imperial Cut-leaved	3 " 4 "	1.25 12.50	
ASH, American White	8 " 10 "	1.25 12.50	
American Green	8 " 10 "	1.25 12.50	
European	6 " 8 "	1.00 10.00	
Mountain	8 " 10 "	1.00 10.00	
BEECH, Purple-leaved	4 " 5 "	2.00 20.00	
BIRCH, European White	8 " 10 "	1.25 12.50	
Purple-leaved	3 " 4 "	1.25 12.50	
CATALPA, Speciosa	8 " 10 "	1.00 10.00	
CERCIS CANADENSIS, (Red Bud)	5 " 6 "	1.25 12.50	
CHERRY, Bird	6 " 8 "	1.00 10.00	
Japan Double Flowering	3 " 4 "	1.25 12.50	
CLADRASTIS TINTORIA, Yellow Wood	5 " 6 "	1.25 12.50	
CORNUS FLORIDA (Dogwood)	White Flowering	2 " 3 "	1.00 10.00
Red Flowering	2 " 3 "	2.25 22.50	
CRAB APPLE	Bachtell's Double Flower'g	4 " 5 "	1.50 15.00
Parkmanni	3 " 4 "	1.25 12.50	
CYPRESS, Deciduous	6 " 8 "	1.75 17.50	
ELM, American	8 " 10 "	1.25 12.50	
English	1 1/2 " 2 in. Cal.	2.25 22.50	
Scotch	2 " 2 1/2 "	2.50 25.00	
HACKBERRY	5 " 6 feet	1.00 10.00	
HORSE CHESTNUT	White Flowering	6 " 7 "	1.75 17.50
Red Flowering	4 " 5 "	2.25 22.50	
American Buckeye	4 " 6 "	1.50 15.00	
Dwarf	2 " 3 "	2.25 22.50	
KENTUCKY COFFEE TREE	5 " 6 "	1.00 10.00	
KOELREUTERIA PANICULATA	3 " 4 "	1.00 10.00	
LABURNUM, Scotch	5 " 6 "	1.00 10.00	
LARCH, European	8 " 10 "	1.00 10.00	
LINDEN, American	1 1/2 " 2 in. Cal.	2.25 22.50	
European	6 " 8 feet	1.25 12.50	
Silver or White Leaf	6 " 8 "	1.75 17.50	
LIQUIDAMBER, Sweet Gum	6 " 8 "	1.50 15.00	
MAPLE, Norway	8 " 10 "	1.50 15.00	
Rock or Sugar	8 " 10 "	1.50 15.00	
Scarlet	8 " 10 "	1.50 15.00	
Weir's Cut-leaved	8 " 10 "	1.50 15.00	
Silver or Soft	8 " 10 "	1.00 10.00	
Cork Bark	3 " 4 "	.75 7.50	
Schwedleri	6 " 8 "	2.25 22.50	
Ash-leaved (Box Elder)	8 " 10 "	1.00 10.00	
Sycamore	5 " 6 "	.75 7.50	

We do not guarantee or replace Trees or Shrubs at prices quoted.

	Each	Per Doz.	
OAK, Red	6 to 8 feet	\$2.25 \$22.50	
Scarlet	1 1/4 " 1 1/2 in. Cal.	2.50 25.00	
Pin	1 1/4 " 1 1/2 "	2.75 27.50	
Burr or Mossy Cup	8 " 10 feet	2.25 22.50	
Golden	4 " 5 "	2.25 22.50	
White	8 " 10 "	2.25 22.50	
English	6 " 8 "	2.25 22.50	
OLIVE, Russian	6 " 8 "	1.00 10.00	
PAULOWNIA IMPERIALIS (Empress Tree)	4 " 6 "	1.50 15.00	
PEACH	Double Flowering Red	.75 7.50	
	Double Flowering White	.75 7.50	
PERSIMMON, American	4 " 6 "	7.50 7.50	
POPLAR, Carolina	10 " 12 "	1.00 10.00	
	Balsam (Balm of Gilead)	1.00 10.00	
	Golden Aurea	.75 7.50	
	Lombardy	.75 7.50	
PRUNUS PISSARDI, Purple Leaf Plum	5 " 6 "	.75 7.50	
SALISBURIA, Maiden Hair or Ginkgo	4 " 5 "	.75 17.50	
SYCAMORE, American	6 " 8 "	1.00 10.00	
	European	5 " 6 "	1.00 10.00
THORN, Paul's Scarlet	3 " 4 "	1.00 10.00	
	Paul's White	3 " 4 "	.75 7.50
TULIP TREE	6 " 8 "	1.25 2.50	

WEEPING TREES.

MULBERRY. TEAS WEEPING	2 year heads	1.50 15.00
	3 year heads	2.50 25.00
	4 to 5 year heads	3.50 to 5.00 each
BIRCH, Cut-leaved	6 to 8 feet	\$1.75 \$17.50
CHERRY, Japanese	2 year heads	2.25 22.50
ELM, Camperdown	2 year heads	2.00 20.00
MOUNTAIN ASH	2 year heads	1.50 15.00
WILLOW, Babylonica	5 to 7 feet	1.00 10.00

NUT BEARING TREES.

CHESTNUTS, American	8 to 10 feet	1.50 15.00
Spanist.	3 " 4 "	.75 7.50
" Japan	3 " 4 "	1.25 12.50
FILBERT, English	3 " 4 "	.75 7.50
HICKORY, Shell Bark	2 " 2 1/2 "	1.50 15.00
PECANS	3 " 4 "	1.00 10.00
WALNUTS, English	3 " 4 "	1.00 10.00
" Black	5 " 6 "	1.25 12.50
" Japan	6 " 8 "	1.25 12.50



Snowball.

See our Catalogues for description and prices of

HARDY HERBACEOUS PERENNIAL PLANTS,
ORNAMENTAL FLOWERING SHRUBS,
EVERGREEN TREES,
SMALL FRUITS, GRAPEVINES, ETC.

DISTANCES FOR PLANTING. Grapes, rows 10 to 16 feet apart, 7 to 10 feet in rows. Blackberries, rows 6 to 7 feet apart, 3 to 5 feet in rows. Currants, 4 feet apart each way. Gooseberries, 4 feet apart each way. Raspberries, rows 5 feet apart. Strawberries, 3 feet in rows. For field culture, rows 3 to 3 1/2 feet apart, 1 to 1 1/2 feet in rows; for Garden Culture, plant in bed 4 feet wide, 3 rows in each bed, plants 1 foot apart in rows.

Fruit Trees, Small Fruits, Grape Vines, Etc.

ELECT thrifty young trees in preference to old or very large ones; the roots are more tender and fibrous and they bear transplanting better and are more apt to live; they can also be more easily trimmed and shaped to any desired form, and in the course of a few years will usually outstrip the older ones in growth. If not prepared to plant when your stock arrives, "heel in" by digging a trench deep enough to admit all the roots and setting the trees therein, carefully pack the earth about the roots, covering up when required. Never leave the roots exposed to the sun and air.

SENT BY EXPRESS OR FREIGHT AT EXPENSE OF PURCHASER.

APPLES.

Standard.

We can furnish all varieties usually catalogued, but the following list comprises the most desirable sorts:

Three years old, 5 to 7 feet high, 40c each; \$4.00 per dozen.

SUMMER VARIETIES.

EARLY HARVEST. Pale yellow, fine flavor; August.
OLDEN SWEET. Pale yellow, sweet and good; August.
ESWICK CODLIN. Large pale yellow, pleasant; August.
LDENBURG, (DUCHESS OF OLDENBURG.) Large, striped red over a greenish yellow ground.
ED ASTRACHAN. Large, crimson, juicy, with rich sub-acid flavor; hardy. July.
WEET BOUGH. Large, pale yellow, tender, sweet.
ELLOW TRANSPARENT. Pale yellow, good quality.

AUTUMN VARIETIES.

ELICIOUS. Large, dark red, juicy, aromatic.
ALL PIPPIN. Very large, yellow, rich, aromatic.
RAVENSTEIN. Large, striped, fine quality. September.
AIDEN'S BLUSH. Large, beautiful, blush cheek.
AMBO. Yellow, streaked with red; October to December.
ED BEITIGHEIMER. Pale cream, covered with crimson.
ESTERN BEAUTY. Large, yellow shaded with carmine in the sun. Excellent quality.

WINTER VARIETIES.

ANANA. Large, golden yellow, shaded crimson.
ALDWIN. Large, dark red, productive.
EN DAVIS. Large, handsome, striped; good quality.
ANO. Deep red, fine quality; good shipper and keeper.
OLDEN RUSSET. Medium, dull russet, crisp, juicy.
REENVILLE. Large, yellow with red cheek; fine quality.
BRIMES GOLDEN PIPPIN. Medium to large, skin golden yellow, flesh crisp, tender, juicy, long keeper.
ONATHAN. Medium, red and yellow, flesh tender, juicy.
ORTHERN SPY. Large, striped red; good keeper.
RAWLE'S JANET. Medium, yellow striped with red, rich, crisp and juicy; a long keeper.
ROME BEAUTY. Large, yellow shaded red, tender.
MITH'S CIDER. Medium, tender and juicy; sub-acid.
WEALTHY. Large, round, skin smooth, splashed dark red; flesh white, tender, juicy, sub-acid.
WHITE PIPPIN. Large, pale yellow, rich sub-acid.
VINE SAP. Medium, deep red, rich, sub-acid.
ORK IMPERIAL. Medium, yellow shaded red, firm, juicy, sub-acid. An excellent shipping apple.

CRAB APPLES.

5 to 7 feet, 40c each; \$4.00 per dozen.

HEWES CRAB FOR CIDER. Best cider crab grown.
ELLOW SIBERIAN. Golden amber, with red blush in sun.
YSLOP. Deep crimson, very popular on account of its large size, beauty and hardness.
TRANSCENDANT. Skin yellow, striped with red.
WHITNEY. Large, glossy green, splashed carmine, firm, juicy, great bearer, excellent for cider.

PEARS.

Standard and Dwarf.

6 to 7 feet, first-class, 60c each; \$6.00 per dozen.

BARTLETT. Large, clear yellow juicy. August.
DORSET. Large, handsome, showy, late, good quality. Feb.
LEWISH BEAUTY. Large, juicy, rich and fine; September to October.
LOWELL. Large, yellow, splendid quality. September.
IEFFER'S HYBRID. Large, rich color and good quality.
AWRENCE. Yellow, thickly dotted, fine flavor.
ECKEL. Small, yellowish brown, one of the best.
HELDON. Large, round russet-red. October.
IVSON. Large, yellow with brown cheek, sweet.
WILDE'S. Yellow with red cheek, fine quality.

QUINCES.

4 to 5 feet, 60c each; \$6.00 per dozen.

MECH'S PROLIFIC. Fruit bright yellow; flesh very fragrant and tender. October.
ORANGE. Large, bright golden yellow, fine quality; flesh firm, cooks tender. October.

WE DO NOT GUARANTEE OR REPLACE TREES OR SHRUBS AT PRICES QUOTED.

PEACHES.

4 to 6 feet, 35c each; \$3.50 per dozen.

CHAMPION. Creamy white with red cheeks, freestone, excellent quality; early in August.
CRAWFORD'S EARLY. Large, yellow, of good quality, freestone; early in September.
CRAWFORD'S LATE. Large, yellow with red cheek, freestone; last of September.
EARLY RIVERS. Large, creamy white, with pink cheeks; early in August.
ELBERTA. Large, yellow with red cheek, flesh yellow; firm juicy, of high quality, very prolific; September.
FITZGERALD. Large, yellow suffused with red, flesh deep yellow, best quality, hardy and productive; early September.
HEATH CLING. Large, flesh white, juicy and melting; Oct.
MOUNTAIN ROSE. Large; handsome red cheek, flesh white, juicy; one of the best August.
OLD MIXON CLING. Large, yellow with red cheek; Sept.
OLD MIXON FREE. Large, yellow with red cheek; Sept.
SALWAY. Large, creamy yellow, with crimson cheek; Oct.
SMOCK'S FREE. Large, yellow, very productive; late September.
MARION HAYWARD. Flesh yellow, slightly streaked with red, flavor pleasant and rich, freestone. August and September. 75c each, \$7.50 dozen.

CHERRIES.

Heart and Bigarreau (Sweet.)

5 to 7 feet, first-class, 60c each; \$6.00 per dozen.

ALLEN. Large, nearly black, very mealy and firm productive and excellent quality.
BLACK TARTARIAN. Very large, purplish black, juicy, rich, excellent, productive; last of June.
GOVERNOR WOOD. Large, light red, juicy, rich, delicious. Tree healthy and productive; June.
NAPOLEON. Large, pale yellow, firm, juicy, productive.
ROCKPORT BIGARREAU. Large, yellow, juicy and sweet.
WINDSOR. Large, liver colored, fine quality.
YELLOW SPANISH. Large, pale yellow with light red cheek; late June.

Duke and Morello (Sour.)

4 to 6 feet, first-class, 50c each; \$5.00 per dozen.

DYEHOUSE. A very early and sure bearer; ripens a week before Early Richmond; fine quality; June.
EARLY RICHMOND. Medium, dark red, fine quality.
ENGLISH MORELLO. Dark red, rich, acid, juicy, and good.
MAY DUKE. Large, red, an excellent variety.
MONTMORENCY. Large, red, fine flavor; finest acid cherry.
OLIVET. Large, red, tender, rich; sub-acid flavor.
REINE HORTENSE. Large, bright red, tender, juicy, nearly sweet.

PLUMS.

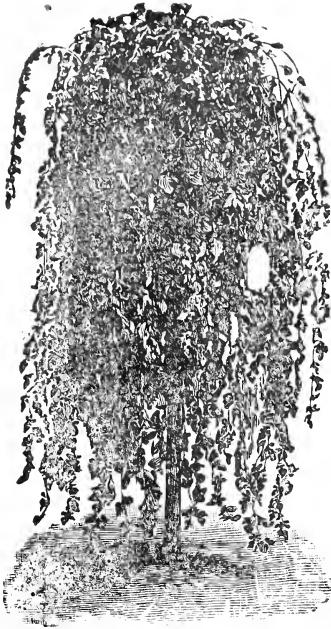
Standard.

ON PLUM STOCKS, 5 to 7 feet, 60c each; \$6.00 per dozen.
ABUNDANCE. Large, yellow with heavy bloom good quality very prolific.
BEAUTY OF NAPLES. Medium size, green with purple cheek; abundant bearer.
BURBANK. The largest and best variety; color red; excellent quality; hardy and vigorous grower.
DAMSON. Small, oval fruit, purple, hardy, productive.
GERMAN PRUNE. Medium, oval fruit, purple, fine quality.
GREEN GAGE. Small, delicious, very prolific, fine quality.
LOMBARD. Medium, red, juicy, hardy and productive.
PURPLE EGG. Rich purple, fine flavor, best market variety.
RED JUNE. Large, red, fine quality; strong, vigorous grower. Finest extra early plum.
SHIPPER'S PRIDE. Large, purple, fine, juicy and sweet.
WILD GOOSE. Medium, purple, flesh juicy and sweet.

MULBERRIES.

5 to 6 feet, 75c each; \$7.50 per dozen.

DOWNING'S EVERBEARING. One of the most prolific varieties, bearing an abundance of large, black, sub-acid fruits, hardy, fruits about three months.
NEW AMERICAN. An everbearing variety; large fruit of the finest flavor, hardy; fruits about three months.



Mulberry, Teas Weeping

The most graceful hardy WEEPING TREE in existence. Forms perfect-shaped head and the slender branches grow downward parallel with the stem, forming an umbrella-like shape.

It takes the foremost place among weeping trees; has beautiful foliage and luscious fruit, is hardy, enduring the cold of the North and the heat of the South; safe and easy to transplant. Admirably adapted for ornamenting small or large grounds, or for cemetery planting.

We have growing in our Nursery some of the finest specimens to be found anywhere, and any desiring to grow these beautiful trees will save years of time by sending us their orders.

We offer subject to previous sale:

2 years old heads \$1.50 each,

3 years old heads \$2.50 each,

4 to 5 year old heads, strictly specimen plants,
\$3.50 to \$5.00 each.

ELM GOLDEN, (*Ulmus Dampieri Aurea*)

This is one of the most distinct and desirable of all the ornamental Elms; its foliage is of uniform golden-bronze color, borne on numerous slender, twig-like branches.

Should be planted as a specimen tree on Lawn, leaving plenty of room for its development as its beauty increases with age, gradually taking on a weeping habit making it more striking in appearance in later years. Supply limited. We offer our own stock, fully acclimated, 6 to 8 feet at \$2.00 to \$3.00 each.

CORNUS FLORIDA.

White Flowering Dogwood.

All lovers of nature should include one or more of these in their collection of Shrubs and Trees, both on account of its ornamental spreading habit and beautiful white flowers in early spring which are succeeded by rich crimson foliage in autumn, thus linking the beauties of Spring with the charms of Autumn.

Perfectly hardy and will grow anywhere that other trees will grow.

We have some fine specimens in our nursery and offer them as long as stock lasts at \$1.25 each.

CHINESE WISTARIA.

Wistaria siensis Alba. This beautiful white flowering variety of Wistaria would be more largely grown if its desirable qualities were better understood.

In our nursery we have found it to be a sure and prolific bloomer, producing immense clusters of richly perfumed snow-white flowers in early spring. In our opinion there is nothing more striking and appropriate for pergolas and the ordinary trellises than this splendid vine. We are able to offer large plants suitable for producing an immediate effect at \$1.50 each as long as stock lasts.

ALTHEA (Rose of Sharon) for HEDGES.

Few are aware of the strikingly attractive characteristics of this perfectly hardy and profuse flowering shrub, when used as a hedge plant or as a screen. When planted compactly and occasionally pruned they are both serviceable and showy as hedges, beginning to bloom in August and continuing to bloom along in September. When left unpruned they soon make an attractive screen and may be topped out at any height desired. On account of their robust habit they are particularly adapted for growing in cities where other shrubs do not thrive. In our nursery we have a fine assortment in several colors and of proper size, which we offer as long as stock lasts at 25c each, \$2.50 per dozen \$20.00 per 100. Named sorts 50c each.

SHOULD BE PLANTED 15 INCHES APART IN SINGLE ROWS.

ALBERT McCULLOUGH, President.

H. B. McCULLOUGH, Sec'y and Treas.

The J. M. McCullough's Sons Co.
SEED MERCHANTS

316 WALNUT STREET, LONG DISTANCE PHONE, MAIN 4598.

CINCINNATI, O.

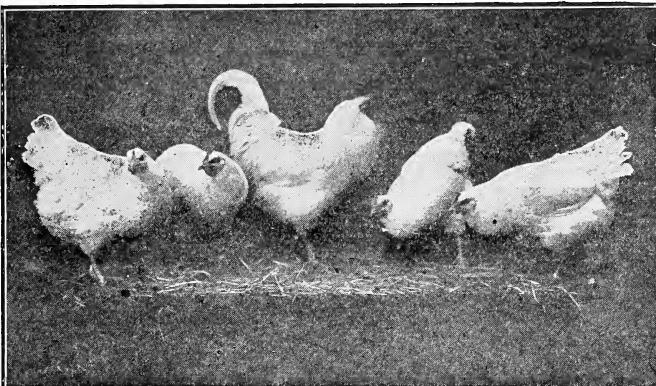
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SPECIAL PRICE LIST

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For POULTRY, PIGEONS and BIRDS

ISSUED BY

The J. M. McCullough's Sons Co.
SEED MERCHANTS

THE LEADING AND OLDEST ESTABLISHED
SEED HOUSE IN THE MIDDLE STATES

77 YEARS

ESTABLISHED 1838

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REMEMBER OUR LOCATION

316 Walnut Street, Bet. 3rd and 4th Sts. only

CINCINNATI, OHIO

PHONE, MAIN 4598

Calves Without Milk

Cost less than half as much as the milk raised calves. Increase your profits by using

Blatchford's Calf Meal

*Don't murder
your calves any
longer—raise them*



IT is shown by government records and statistics that the slaughter of cattle in the United States between the years 1900 and 1910 increased 66 per cent; that the slaughter of calves during that period increased more than 500 per cent.

Take advantage of this opportunity. Raise your calves without milk.

Send for booklet

"The best way to raise calves—with little or no milk"

Retail Prices

	100-lb. bags	50-lb. bags	25-lb. bags
Calf Meal	\$3.50	\$2.00	\$1.00
Pig Meal	3.50	2.00	1.00
Lamb Food	3.50	2.00	1.00
Egg Mash	2.50	1.35	.75
Milk Mash	3.00	1.65	.90

F. O. B. Cincinnati, Ohio



Your "baby chicks," once started on this *imitation milk*, will grow rapidly and thrive vigorously. Bowel trouble is unknown to chicks given a few weeks' start on this complete milk-equal. It contains Blatchford's Calf Meal, thoroughly steam-cooked.



When three months old start your pullets gradually on Blatchford's Egg Mash. This will make early layers of them beginning at five to six months old. By continuing on this perfectly balanced mash they become vigorous layers owing to surplus nourishment received.



Don't take chances on losing your young pigs at weaning time or allowing them to become runts. This is the time they need an easy, gradual change from the sow to the pasture, and it will pay you to see that they make this change on Blatchford's Pig Meal.



The tender, young systems of "baby lambs" demand a careful weaning. They need a milk diet for the change to ordinary feed. Blatchford's Lamb Food is based on a thoroughly steam-cooked milk substitute, making it an ideal ration and imitation of ewe's milk.

We are GENERAL AGENTS for PRAIRIE STATE SAND TRAY INCUBATORS, OUTDOOR COLONY BROODERS, UNIVERSAL and PORTABLE HOVERS and coal burning STOVE BROODER. Newton Giant Incubators and coal burning Colony Stove Brooders. INTERNATIONAL SANITARY and MAMMOTH HOVERS. Mann's Green Bone Cutters. CLOSE-TO-NATURE OAT SPROUTERS. Red Chief Grinding Mills. 20TH CENTURY MASH FEEDERS AND EXERCISERS. Cycle Hatchers and Philo System, etc., besides a large line of up-to-date APPLIANCES all described in our free CATALOGUES and CIRCULARS.

Save TIME, ANNOYANCE and EXPENSE by consulting us before purchasing.

THE J. M. McCULLOUGH'S SONS CO. Seed Merchants
316 WALNUT STREET, Bet. 3rd and 4th Sts. only

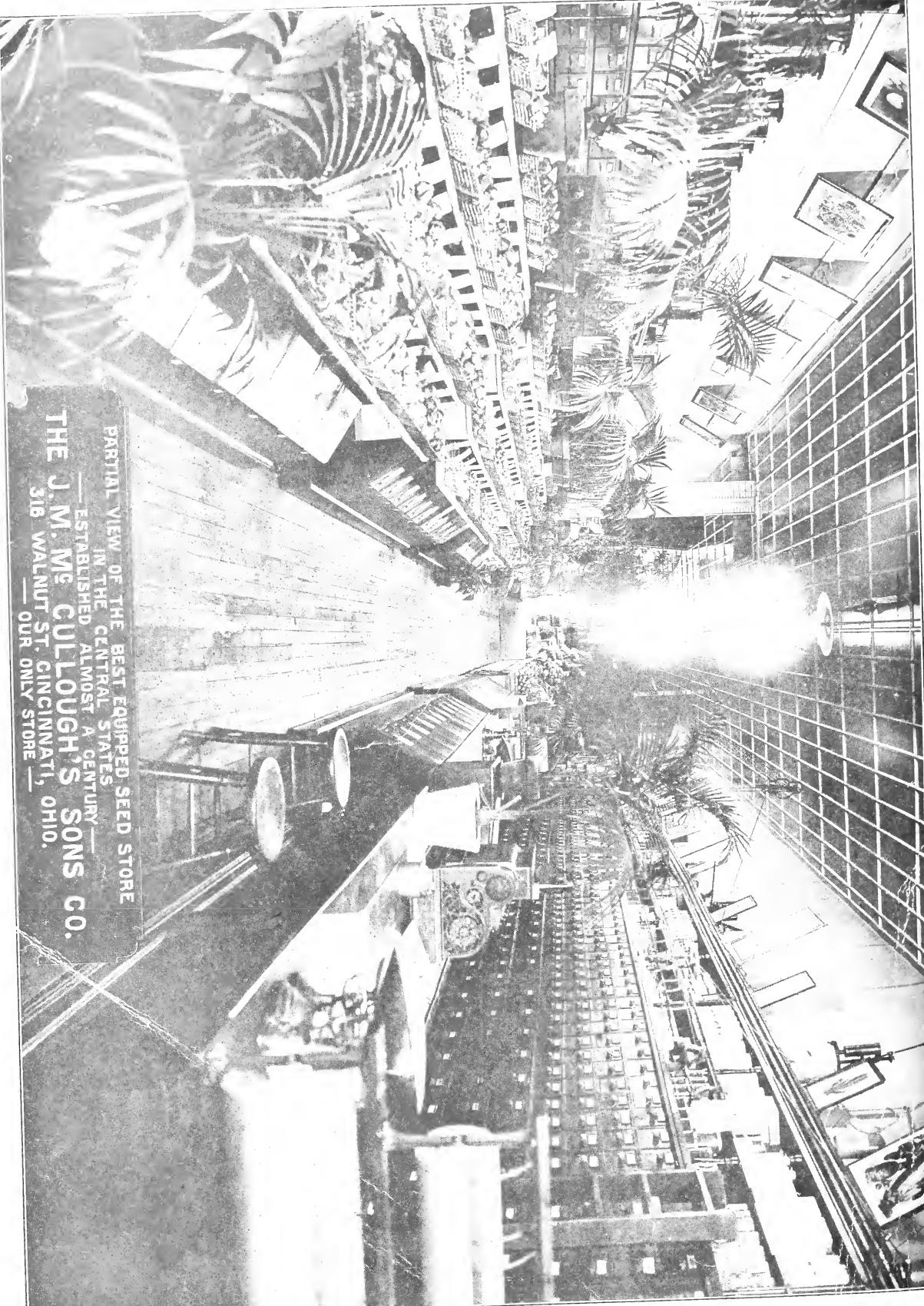
Phone Main 4598

CINCINNATI, O.

RURAL BOOKS AND PERIODICALS.

ALL BOOKS SENT POSTPAID AT PRICES GIVEN.

ALFALFA CLOVER. (F. D. Coburn). Illustrated, 160 pages.....	\$ 50	GRASSES, FARM OF THE UNITED STATES. (W. J. Spillman). Illustrated, 248 pages.....	\$ 1 00
ANIMALS, FARM, COW, HORSE, SHEEP, SWINE. (E. V. Wilcox). A valuable manual of how to breed, care for, use and doctor all the animals on the farm.....	2 00	GREENHOUSE CONSTRUCTION. (Taft). A complete treatise on Greenhouse structures.....	1 50
ASPARAGUS. (F. M. Hexamer). It's culture for home use and market. Illustrated, 174 pages.....	50	GREENHOUSE MANAGEMENT. (Taft). The latest book on this important branch of horticulture.....	1 50
BEAN CULTURE. A practical treatise. (Glenn C. Sevey) Illustrated, 144 pages.....	50	HANDBOOK OF PLANTS. (Henderson). A dictionary of plants with cultural hints for important sorts.....	3 00
BEE CULTURE, A B C of. (A. I. Root). A cyclopedia of matters pertaining to Bees.....	1 50	HEDGES, WINDBREAKS, SHELTERS AND LIVE FENCES. (Powell). A treatise on the planting, growth and management of hedge plants.....	50
BULBS AND TUBEROUS ROOTED PLANTS. (Allen). Full directions for their culture, indoors and outdoors..	1 50	INSECTS AND INSECTICIDES. (Weed). A practical manual concerning noxious insects.....	1 50
CABBAGE, CAULIFLOWER, AND ALLIED VEGETABLES. (Allen). Tells all about them from seed time to harvest.....	50	IRRIGATION FOR THE FARM, GARDEN AND OR-CHARD. (Henry Stewart). Illustrated, 276 pages..	1 00
CELERY CULTURE. (W. R. Beattie). Illustrated, 150 pages.....	50	MUSHROOMS, HOW TO GROW THEM. (Wm. Falconer). The most practical work on the subject.....	1 00
CEREALS THE, IN AMERICA. (Thomas F. Hunt). Illustrated, 449 pages.....	1 75	MUSHROOM CULTURE. Treatise on.....	10
CRYSANthemum THE. (A. Herrington). Illustrated, 160 pages.....	50	NURSERY BOOK, THE. (Bailey). A complete guide to the multiplication of plants.....	1 50
CLOVERS AND HOW TO GROW THEM. (Thomas Shaw). Illustrated, 337 pages.....	1 00	ONION CULTURE. (T. Greiner). Illustrated, 140 pages	50
CYCLOPEDIA OF AMERICAN AGRICULTURE. (Bailey). The complete work comprises 4 volumes 7x10 in. over 650 pages each, fully illustrated. Sold in sets only.	20 00	POTATO, THE. Its Cultivation, Development, Harvesting, Storing, Marketing. (Samuel Fraser). Illustrated 180 pages.....	75
CYCLOPEDIA OF AMERICAN HORTICULTURE. (Bailey). The complete work comprises 4 volumes 8x11 inches, over 500 pages each, substantially and handsomely bound in cloth and gold. Sold in sets only....	20 00	POULTRY APPLIANCES AND HANDICRAFTS. (G. B. Fiske). Over 100 Illustrations.....	50
EGG FARM, THE NEW. A practical, reliable manual. Illustrated, 331 pages.....	1 00	POULTRY ARCHITECTURE. (G. B. Fiske). A treatise on poultry buildings of all grades. Illustrated, 150 pages	50
FLORICULTURE, PRACTICAL. (Henderson). A guide to the successful cultivation of florists' flowers.....	1 50	POULTRY FEEDING AND FATTENING. (G. B. Fiske). A handbook on the standard and improved methods of Feeding and Marketing. Illustrated, 160 pages.....	50
FORAGE AND FIBRE CROPS IN AMERICA. (Thomas F. Hunt). Illustrated, 428 pages.....	1 75	POULTRY PRODUCTION, PROFITABLE. (M. G. Kains). Illustrated, 288 pages.....	1 50
FORAGE CROPS, OTHER THAN GRASSES. (Shaw). How to cultivate, harvest and use them. Illustrated..	1 00	POULTRY, THE AMERICAN STANDARD OF PER-FECTION. It contains a complete description of all the recognized varieties of fowls, gives instruction to judges, etc. New edition, Illustrated.....	1 50
FORCING BOOK, THE. (Bailey). The best book on forcing vegetables under glass.....	1 25	PRUNING BOOK, THE. (Bailey). Principles and practice of pruning and training.....	1 50
FORESTRY, PRACTICAL. (A. S. Fuller). A treatise on propagation, planting and cultivating.....	1 50	RHUBARB CULTURE. (J. E. Morse). Illustrated, 130 pages.....	50
FRUIT CULTURE, SUCCESSFUL. (Samuel T. Maynard). A practical guide to the Cultivation and propagation of Fruits. Illustrated, 265 pages.....	1 00	ROSE, THE, ITS CULTIVATION, VARIETIES. (Ellwanger). The standard American work on this subject	1 25
FRUIT CULTURIST, SMALL, (Fuller). This book covers the propagation and culture of small fruits.....	1 00	SILOS, ENSILAGE AND SILAGE. (Manly Mills)....	50
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